

# Bay de Noc Community College

2017-2018

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Member of  
American Association of Community Colleges  
Michigan Community College Association  
Association of Community College Trustees  
American Association of Collegiate Registrars & Admissions Officers

Approved by the

Michigan Department of Education  
608 W Allegan  
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Lansing, MI 48909  
517-373-3324

Accredited By  
Higher Learning Commission of the North Central Association of Colleges and Schools  
30 North LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
800-621-7440; 312-263-0456  
[www.ncahlc.org](http://www.ncahlc.org)

To review any of the accreditation and licensing documents, enrolled or perspective students should contact Bay de Noc Community College's Library.

# Bay College

## 2017-2018 Academic Calendar

### Fall 2017

Online Priority Registration opened .....	March 27
Fall semester classes begin.....	August 28
Last day to add a class .....	September 1
Labor Day Break .....	September 4
Last day to drop with a refund .....	September 8
Online Priority Registration for Winter 2018 opens .....	TBD
Last day to withdraw from a class.....	November 3
Thanksgiving Break .....	November 23-24
Last Day of classes.....	December 8
Final Exams Week .....	December 11-15
End of Term .....	December 15

### Winter 2018

Winter semester classes begin .....	January 15
Last day to add a class .....	January 19
Last day to drop with a refund .....	January 26
Spring Break .....	March 12-16
Online Priority Registration for Fall 2018 opens .....	TBD
Last day to withdraw from a class.....	March 30
Last Day of classes.....	May 4
Final Exams Week .....	May 7-11
End of Term .....	May 11
Commencement.....	May 12

### Summer 1 2018

Summer 1 classes begin.....	May 21
Last day to add a class .....	May 22
Last day to drop with a refund .....	May 25
Last day to withdraw from a class.....	June 8
End of Term .....	June 29

### Summer 2 2018

Summer 2 classes begin.....	July 2
Last day to add a class .....	July 3
Last day to drop with a refund .....	July 6
Last day to withdraw from a class.....	July 20
End of Term .....	August 10

Watch [www.baycollege.edu](http://www.baycollege.edu) for announcements about Tuition Due Dates

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# Bay de Noc Community College

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## HISTORY AND ORGANIZATION

Authorized in 1962 by the citizens of Delta County, Bay de Noc Community College opened its doors to students in the fall of 1963. Since its beginning in the old Escanaba Area High School building, the College's physical plant has grown to its current contingent of thirteen buildings located on a 150-acre campus site at the northeast corner of the City of Escanaba.

In 1963, the College enrolled approximately 200 students. Currently, the student population is over 2,000 students registered for credit courses. Students are currently enrolled in programs of study that include occupational, transfer, and community service curricula.

The College is governed by a seven-member Board of Trustees, which is responsible for setting the policy direction for the College. Board members are elected at large from the College's service area.



# General Information

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## Non-Discrimination Statement

Bay de Noc Community College, as an equal opportunity employer, complies with all applicable federal and state laws regarding nondiscrimination and equal employment opportunity, including Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. The Bay de Noc Community College Board of Trustees is committed to a policy of nondiscrimination and equal opportunity for all persons regardless of religion, race, color, sex, age, disability, national origin, height, weight, familial status, pregnancy, or marital status in employment, educational programs and activities, and admissions.

Questions concerning Title IX of the Education Amendments of 1972, which prohibit discrimination on the basis of sex/gender, should be directed to either the Title IX Coordinator or a Deputy Title IX Coordinator.

<b>Bridget Kennedy</b>	<b>Beth Berube</b>	<b>Dave Laur</b>
Title IX Coordinator	Deputy Title IX Coordinator-Employees	Deputy Title IX Coordinator-Students
Director of Human Resources	Human Resources Specialist	Director of Student Life
<a href="mailto:bridget.kennedy@baycollege.edu">bridget.kennedy@baycollege.edu</a>	<a href="mailto:beth.berube@baycollege.edu">beth.berube@baycollege.edu</a>	<a href="mailto:dave.laur@baycollege.edu">dave.laur@baycollege.edu</a>
906-217-4049	906-217-4036	906-217-4031
Bay College	Bay College	Bay College
2001 N. Lincoln Rd.	2001 N. Lincoln Rd.	2001 N. Lincoln Rd.
Escanaba, MI 49829	Escanaba, MI 49829	Escanaba, MI 49829

A complaint may also be filed electronically by going to the College website ([www.baycollege.edu](http://www.baycollege.edu)), selecting the "Campus Safety" link, and selecting the "Incident Report" link (<https://publicdocs.maxient.com/incidentreport.php?BayCollege>).

Inquiries related to the Americans with Disability Act or Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of disability, should be directed to the ADA Coordinator:

**Director of Human Resources  
Bay de Noc Community College  
2001 North Lincoln Road  
Escanaba, MI 49829-2511  
906-217-4049**

Revised and adopted by the Board on February 18, 2015

See Services for Students chapter of this catalog for details.

## DISCLAIMER

The catalog is effective for the 2017-2018 academic year beginning August 1, 2017. The catalog is for informational purposes only and does not constitute a contract. Bay de Noc Community College has made every reasonable effort to determine that everything stated in this catalog is accurate at the time of printing. However, the college reserves the right to change, modify, or alter without notice all fees, charges, tuition, expenses, and costs of any kind and further reserves the right to add or delete without notice any course offering or information contained in this catalog, including the rules controlling admission to, instruction in, and graduation from Bay College. Such changes become effective whenever the college deems necessary and apply not only to prospective students but also to those currently enrolled. The most up to date information is available on the College website at [www.baycollege.edu](http://www.baycollege.edu).

# Message from the President

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Greetings:

Bay College is your community college. The faculty, staff and administration at Bay College are all committed to your success. We are excited that you are attending Bay College. We look forward to providing you with tools that will lead to your successful completion of a certificate and/or degree. Our best day is the day you graduate.

In today's workplace, job skills are the key to success. In fact, many degree-holding students return to Bay College in order to update skills or obtain new skills for career changes. Bay College provides programs that will help you develop the job skills that you will need to enter the workforce, as well as programs that provide transferable credits, which will prepare you for further study at a baccalaureate institution.

Bay College provides easy access with campuses in Escanaba and Iron Mountain and innovative educational programs. Our student support services department provides tutoring and supplemental instruction. Visit our financial aid department for information on scholarships and financial aid. We are here to help.

Bay College is a great place to get an education! We look forward to welcoming you to our campuses.

Sincerely,

A handwritten signature in cursive script that reads "Laura L. Coleman".

Laura L. Coleman, Ph.D.  
President

# Board Members and President

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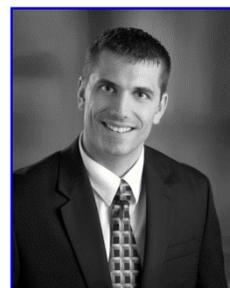
**Thomas L. Butch** has been a member of the Board of Trustees since 1974. He graduated from Gladstone High School in 1960 and received degrees from the University of Michigan (B.A. with distinction and honors in Political Science, 1964; J.D., cum laude, 1967), and joined the predecessor to the Escanaba law firm of Butch, Quinn, Rosemurgy, Jardis, Burkhart, Lewandowski & Miller, P.C., the same year. He was admitted to the Bar of the State of Michigan in 1968. Mr. Butch served on the Board of the Delta-Schoolcraft Intermediate School District from 1967-1973. He was City Attorney for the City of Gladstone from 1975 through 2013; is a member of the Pi Sigma Alpha Honorary Political Science Fraternity; is an honorary member of Phi Theta Kappa; serves on the Delta County Economic Alliance Board of Directors and as a member of the Gladstone Planning Commission, the Remnants Barbershop Chorus, and the Gladstone Memorial United Methodist Church. Mr. Butch also served on the Michigan Community College Association Legislative Board. He has been married to his wife, Alice, for 50 years. They have three children and four grandchildren.

**Joy E. Hopkins** was appointed to the Board of Trustees in 2013 to fill the unexpired term of James R. Moberg and elected in 2014 and 2016. Joy received a NROTC scholarship to Marquette University in Milwaukee after serving two years in the U.S. Navy. She graduated with a Bachelor of Arts and Sciences degree in 1983. Joy resigned her Navy commission in 1991 to pursue her nursing degree at George Mason University in Virginia. Upon graduation from the nursing program, Joy found herself drawn back to service and rejoined the Navy as a nurse. Joy received a Masters in Health Administration from Eastern Michigan University in 2011. She is currently employed as the Vice President, Patient Care Services at OSF St. Francis Hospital and Medical Group. Joy and her family settled in Michigan in 2000 and moved to Bark River in 2011.



**James L. Hermans**, a native of Escanaba, was elected to the Board of Trustees in 2006 and 2012. Mr. Hermans graduated from Northern Michigan University in 1967 with a Bachelor of Arts in Special Education and Elementary Education. He received a Master of Arts in 1973 in Education and Administration. He also has 30+ hours in School Law and Finance. Mr. Hermans is a member of the Escanaba School Board (2000-2017); St. Anne's Church, Escanaba and on the Michigan Works! Job Force Board (2004-2017). He was a member of the Noon Kiwanis (22 years) and past president (2 terms).

**Eric L. Lundin** was appointed to the Board of Trustees in 2003 and served until 2011. He was re-appointed in 2015 and re-elected in 2016 to fill the unexpired term of Margaret Noreus. Mr. Lundin graduated from Bay College and Summa cum Laude from Northern Michigan University with a Bachelor of Science degree in Business and Computer Information Systems. Additionally, he graduated from the inaugural class of the Delta Force Leadership Academy. Eric is currently a Vice President at Upper Peninsula State Bank. He lives in Gladstone with his wife, Paula, and their daughters, Megan and Abigail.





**Stephen P. O'Driscoll** was elected to the Board of Trustees in 2016 for a six year term. He is an Escanaba graduate and took classes at Bay College during high school. After graduating with a Paper Engineering degree from Western Michigan University, Steve returned to Delta County and settled in Gladstone. Mr. O'Driscoll worked for Nalco Chemical Company, providing specialty chemicals to the local paper mills before purchasing Bramco Containers with his brother and business partner, John. At Bramco, he and his brother are "hands-on" owners, performing any and all tasks from maintenance, operations and deliveries to purchasing, sales, pricing and financial analysis. While Steve is an advocate for a strong academic background, he considers the experience of learning to use his hands to build and fix things as important as classroom learning. Being the co-owner of a business allows O'Driscoll to make time for his family and community, as he is the proud father of three children and two step-children. He is an 11 year member of the Gladstone School Board, being the acting board President and a 10 year member of the Gladstone

Economic Development Corporation Board. He is a very active member of Players de Noc and has served on the group's Board of Directors for four years. At Gladstone schools, Steve is also a substitute bus driver and the volunteer advisor for the Gladstone Junior High Theatre Group and the High School Youth in Government delegation.

**William W. Lake** was appointed to the Board of Trustees in 2003 to fill the unexpired term of Marian E. Olson. He was re-elected to the Board in 2008 and 2014. Mr. Lake is a graduate of Northern Michigan University with a Bachelor of Science degree in Elementary Education with an emphasis in Mathematics and Social Studies and a Masters degree in School Administration. He is a retired superintendent from Bark River-Harris Schools; a position he held for ten years. Mr. Lake is a member and past officer in several organizations including the Community Foundation for Delta County, the Bark River Lions Club, the American Legion Post 438, and Salem Lutheran Church. He resides in Bark River.



**Philip L. Strom** was appointed to the Board of Trustees in 2011 and elected in 2012 and 2014. Mr. Strom was born and raised in Escanaba, Michigan. He went on to graduate from Western Michigan University where he studied Political Science and Business. He earned his Juris Doctorate degree from Thomas Cooley Law School in 2009. After graduating from Law School, Mr. Strom joined his father and uncle in private practice at Strom & Strom P.C. In 2011, Mr. Strom joined the office of the Delta County Prosecutor as an Assistant Prosecuting Attorney. In 2015, Mr. Strom was appointed as Chief Prosecuting Attorney for Delta County. Mr. Strom resides in Escanaba with his wife Audra and his daughter Finley. He has served on the City of Escanaba Board of Zoning and Appeals and is actively involved with Escanaba Lions, Elks Lodge #354, Big Brothers/Big Sisters, and is a graduate of the 2011 Delta Force Class.

**Laura Coleman** is President of Bay de Noc Community College, a position she assumed in July of 2006. Prior to joining Bay College, Dr. Coleman was Executive Dean at Bertrand Crossing Campus, Lake Michigan College, Benton Harbor, MI. She also served as Interim Dean of Institute for Diversity and Leadership at Lake Michigan College, Benton Harbor, MI. She served as the Director at the Jefferson City Campus of State Fair Community College. Dr. Coleman received her Doctorate of Philosophy (Ph.D.) degree from the University of Missouri-Columbia, her Master of Business Administration (MBA) degree from Lake Forest Graduate School of Management, Lake Forest, IL, and her Bachelor of Science (BS) degree from the University of Illinois. Dr. Coleman serves on the Michigan Early Middle College Association Board, the Michigan Center for Student Success Advisory Committee, the Michigan Colleges Online Advisory Board, the Michigan Community College Association Executive Board, and as Past President to the Continuous Quality Improvement Network (CQIN). She serves on the American Association of Community Colleges (AACC) Presidents Academy Executive Committee and was appointed by the Association of Community College Trustees (ACCT) to the Advisory Committee of Presidents. She served on the AACC Commission on Academic, Student, and Community Development from 2011-2013, the Commission on Research, Technology, and Emerging Trends from 2013-2014, and the Michigan College Access Network Board of Directors from 2011-2015. Locally, she serves on the Delta County Economic Development Board, the EDA Executive Committee, the CUPPAD Central U.P. Regional Prosperity Collaborative and Rural Wage Study Committee, and is a member of Rotary. She served on the OSF Community Advisory Board from 2008-2012 and the Bay Area Economics Club from 2007-2014.



# Foundation & Alumni Association

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The Bay de Noc Community College Foundation is the friend and fundraising arm of the College. Private funding is critical to propel the mission of the College, contributing to student scholarships, program development, community arts, campus enhancements/expansions and improving the overall educational environment. The Foundation encourages businesses, organizations, alumni and community members alike to support educational advancement.

Today, the Foundation manages over \$8M in assets, including over 300 funds and endowments. Assets alone cannot measure the success of the Foundation. Since its very beginning in 1972, scholarship support for academically deserving students and students with financial barriers has been a priority. Foundation scholarships benefit thousands of students, many times increasing opportunity to students who often have the least access to higher education. The Foundation awards nearly 300 student scholarships for academic excellence and financial assistance, totaling over \$350,000 annually.

While state and local funding provide basic services, support from the Foundation through private contributions has made possible building expansions, technical enhancements, educational innovations, art acquisitions and campus improvements otherwise impossible. Directed and in-kind contributions of equipment, materials, books, artworks, manpower and the like also improve the overall educational environment and experience. Golf, gala and art events are held annually to support student success.

We invite you, your family, friends, and employers to be part of the success. With your support, the Foundation is well positioned to assist the College and community to make a difference for future generations. *It is not just about money – It is about providing an opportunity for people to become the best they can be and to realize their greatest potential.*

Information on opportunities to participate in any of the Foundation's programs is available online at: [www.baycollege.edu/foundation](http://www.baycollege.edu/foundation), e-mail [foundation@baycollege.edu](mailto:foundation@baycollege.edu) or phone 906-217-1700. The scholarship application for Foundation scholarships can be found at [www.baycollege.edu/scholarshipapp](http://www.baycollege.edu/scholarshipapp).

## **BAY COLLEGE ALUMNI ASSOCIATION – THE LEGEND LIVES ON**

You are among the distinguished group of Bay College Alumni upon attaining your degree or certificate from Bay College. Bay College encourages all graduates to stay involved with your college as active alumni. Keep us informed of your success stories - it will encourage others!

The Bay College Alumni Association supports a scholarship which is awarded annually to an academically deserving student who has achieved a minimum of 24 credits. Educational gifts to fund the Alumni Scholarship are accepted at all times.

All Bay College new graduates and alumni are invited to an annual event typically held on Thursday evening the week prior to commencement in May.

Each year, a Distinguished Alumni of the Year is recognized and speaks at commencement the following year. Nominate your successful classmates online at [www.baycollege.edu/alumni](http://www.baycollege.edu/alumni) or by emailing [alumni@baycollege.edu](mailto:alumni@baycollege.edu).



# Who We Are

## Mission Statement

*“Bay College cultivates an environment of learning, growth, and opportunity through an unwavering commitment to the success of our learners and communities.”*

*Nationally recognized for student success, completion, and technology, Bay College is committed to excel **three strategic priorities**, be a leading College of choice, and provide advanced opportunities for all.*



*Student Success...  
Community Success...  
Culture of Success...*

## Student Success

*Bay College will continue to be a premier institution of learning that creates high quality, relevant academic experiences for a diverse community of learners.*

## Community Success

*Bay College will be a proactive leader in workforce development, educational partnerships, cultural diversity, and a responsible member of a resilient community.*

## Culture of Success

*Bay College fosters a supportive environment that engages employees and develops talent to become the employer of choice in the U.P.*

## Our Values

### Student Focus

*At Bay College, student success is our primary aim. All of our employees have a role to play in making our institution a place where this can happen. We strive to deliver safe, accessible, equitable, and quality learning opportunities.*

### Quality Commitment

*In order to be a leader in education, we must be committed to continuous quality improvement. We must be fully engaged in our efforts and must be constantly learning and improving ourselves.*

### Collective Accountability

*Everyone at Bay College has a role to play in achieving our goals. We must operate as a team, not as a collection of individuals, and are therefore collectively accountable for our results and we will accomplish this by respecting our Cultural Beliefs.*

### Collegial Relationships

*We are the Bay Family! Bay College must work as a team to align our efforts, while still respecting individuality. We will achieve this by valuing our Cultural Beliefs.*

### Community Engagement

*Bay College is part of our community's development. In order to perform this task most effectively, we must partner with external institutions to develop relationships of reciprocal value.*

### College Vitality

*Stepping onto a Bay College campus should be an invigorating experience. Through our promotion of the arts and culture, the aesthetics of our campus grounds and facilities, and the personable attitudes of our faculty and staff, we promise to make the Bay College environment a positive one.*

### Data Informed

*The decisions we make as community and educational leaders should not be taken lightly. The use of verifiable evidence ensures that these decisions are well informed and that our successes are measurable.*

### Diversity

*Bay College appreciates the multiple perspectives, opinions, and experiences of all individuals who interact with the college. Diversity strengthens our institution in a variety of ways, making us more than the sum of our parts.*

### Financial Stability

*Bay College closely monitors its financial health and supports a fiscally responsible and sustainable future.*

## **STUDENT ASSESSMENT**

At Bay College, we are dedicated to serving students by providing effective teaching, which will enrich their knowledge and challenge them to expand their thinking in preparation for the future. As a means to track our progress, we have developed an institutional assessment plan that formally and systematically measures student learning at the course level, program level, and the institutional level.

A major focus of the assessment team is to monitor student success in meeting the General Education outcomes. All students at Bay College are expected to participate in assessment activities during their course of study. These activities are designed to improve the collection and analysis of useful information about teaching and learning techniques that work well at the college and help identify areas for improvement. We encourage and expect all students to take responsibility for their learning and to assist college officials with improving instruction and learning at Bay College.

## **ASSURANCE OF QUALITY STATEMENT**

Bay de Noc Community College is committed to the graduation of high quality students, capable of performing the entry level skills specified in the student's major and possessing competencies included in the College's general degree requirements. We offer assurance to our students, prospective employers, and to transferring institutions that individuals holding degrees or certificates with a "C" or better average in all courses are capable of competent performance.

Students who graduate from technical and occupational programs with a degree or certificate with a "C" or better average in all courses can be expected to perform competently in the area in which they were instructed. Any employer who views a Bay de Noc Community College graduate as not possessing appropriate entry level skills and can specify such deficiencies may request remediation. The student will be permitted to retake a specific course or courses at Bay de Noc Community College without an additional tuition charge provided the deficiency is identified as a generally accepted skill in his or her major.

Bay de Noc Community College has articulation agreements with a number of Michigan colleges and universities. These agreements guarantee the transferability of equivalent courses within the curriculum. Students following those prescribed courses and programs provided for in the articulation agreements are assured of maximum transferability of earned credits.

The College intends that graduates in transfer programs will be prepared to perform at a level equal to or better than students who spent their first two years at the transfer college.

The College will, upon recommendation from the institution to which the student transferred, permit the student to retake any course or courses in areas deemed deficient provided that a grade of "C" or better was awarded to the student while enrolled in the course or courses at Bay College. This retake at Bay College shall result in no tuition charges for the student.

The College recognizes that unused knowledge and skills decay rapidly; therefore, any requests for remediation must be made within one year of graduation.

Board adopted: July 11, 1990

# Basic Terms

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The following definitions are assumed when explaining College policies and procedures. Direct any questions to the Office of Student Services or Office of Academic Affairs or the Registrar.

## Credit Hour

According to federal definition, “a credit hour represents the student work required to demonstrate achievement of clearly-defined learning outcomes to be accomplished in one hour of direct faculty instruction in the classroom, or online, and two hours of out-of-class student work each week for the equivalent of 15 weeks a semester. Labs, co-ops, clinicals, and other academic activities require a minimum of two hours of student work each week for the equivalent of 15 weeks a semester for each credit hour.”

At Bay College, degree and certificate requirements are calculated in credit hours completed. See the appropriate program pages later in this catalog for listings of requirements.

## Contact Hour

Bay College calculates tuition and fees in contact hours, the number of hours the student meets with an instructor and/or attends instructional sessions.

## Semester

Bay College operates on a semester hour basis. Each semester is 16 weeks in length, 15 weeks of instruction and 1 week of final examinations. Summer 1 and 2 are 6 weeks in length.

## Program of Study/Major

Each student is required to declare a major, also known as a Program of Study. Available programs of study are listed in this catalog and include all requirements that must be fulfilled in order to receive that particular degree or certificate.

## Michigan Transfer Agreement (MTA)

The Michigan Transfer Agreement (MTA) is an agreement between all public community colleges in Michigan and the 15 public universities in the state as well as a number of participating tribal and private colleges and universities in Michigan. It is designed to facilitate the transfer of general education requirements from community colleges to four-year colleges and universities. Students who complete the minimum 30 semester hours of college-level courses with a grade of 2.0 or higher in each course within the specified categories will fulfill lower-level general education requirements dependent on the requirements of the major. All Bay College students who complete an Associate in Arts (AA) or Associate in Science (AS) degree must complete the MTA requirements and will therefore receive the MTA notation on their transcript. This agreement supersedes the MACRAO Agreement.

## MACRAO Agreement

The MACRAO (Michigan Association of Collegiate Registrars and Admissions Officers) stamp is added to the transcripts of students who complete the General Education requirements detailed in the General Transfer Information chapter of this catalog. MACRAO provides for transferability of 30 semester hours to meet many or all of the General Education Requirements at participating Michigan colleges and universities. All Bay College students who complete an Associate in Arts (AA) or Associate in Science (AS) degree must complete the MACRAO requirements and will therefore receive the MACRAO notation on their transcript.

## Transitional Studies

Some students may not currently meet a college level proficiency in English, math, or science courses. Bay College provides opportunities for students to improve their knowledge and skills so they can succeed in required course work. Courses numbered below 100 are designated as Transitional Studies. These courses cannot be used to fulfill requirements for programs of study. The credits and grades for these courses are used to calculate the term grade point average (GPA), but not the cumulative GPA. The credits for these courses are used to calculate full- and part-time status for Financial Aid.

## Instructional Delivery

Bay College uses three types of instructional delivery, always striving to ensure that students can meet the expected learning outcomes for the course and their degree or certificate.

**Traditional:** The traditional course is one where the instructor meets face-to-face with the student for all contact hours of the course. However, the student in a traditional course may be required to use the internet to access online assignments, virtual tours, course documents, learning artifacts, assignment directions, instructor notices/communications and assessments.

**Hybrid:** Hybrid courses are delivered with a portion of the course being face-to-face and the remainder online.

**Online:** Online courses deliver course content 100% online; however, some instructors may require students to take tests in a proctored classroom or computer lab setting.

## Graduation

Graduation refers to the completion of requirements for the chosen Program of Study. The students should work with their Academic Advisors to select courses that will fulfill those requirements. Toward the end of their course work, students must submit an Application for Graduation to verify that requirements have been met.

## Commencement

In May of each year, Bay College hosts a Commencement ceremony to celebrate the graduation of all those who have completed their degree requirements the previous December, the current May, and the next June and August. If students are expected to complete their requirements by the end of Summer 1 term (June) or Summer 2 term (August), they may march in May's Commencement ceremony.

## Transcript

Transcripts are an official record of the student's academic course work at Bay College, or work transferred to Bay College from another college or university. Once recorded, courses cannot be removed, and grades cannot be changed.

## Grades

At the end of each term, students receive a mark or grade that is recorded on their transcript. The grade indicates whether they completed the course and how well they met the requirements of the course.

W, WP, WF – indicate the student withdrew from the course and did not complete requirements. No credit is earned.

A through D-, P – indicate the student completed requirements satisfactorily. Credit is earned.

F, NP – indicate the student did not complete requirements satisfactorily. No credit is earned.

AU – indicates the student attended the class and did some or all of the work, but was not required to complete all requirements. No credit is earned.

I – indicates the student requested an "Incomplete" which allows the student additional time to complete all course requirements. This is only granted when there are extenuating circumstances.

Bay College does not send Grade Reports. More details are available in the Records & Registration chapter of this catalog.



# Admissions

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## STUDENT CHECKLIST

### Find out about Bay de Noc Community College

Explore the opportunities for study at Bay College. Review the college catalog, visit the College website at [www.baycollege.edu](http://www.baycollege.edu), or call the Admissions Office at 906-217-4010, and arrange for a visit to campus.

### Complete the Application for Admission

Apply on-line at [www.baycollege.edu](http://www.baycollege.edu).

### Provide Assessment Scores/Complete Placement Assessment

All students, except non-degree or guest, should submit ACT or SAT scores (if available) and must take an appropriate assessment unless an exemption applies. See the following page for exemptions.

### High School Transcripts (if applicable)

High School seniors interested in being considered for scholarships to Bay College should request a current official high school transcript be sent to the Admissions Office at Bay College.

### Apply for Financial Aid and Scholarships

To be considered for financial assistance, complete and submit your Free Application for Federal Student Aid (FAFSA). The FAFSA must be submitted online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students interested in being considered for Bay College Scholarships must also complete the Bay College Scholarship Application at [www.baycollege.edu](http://www.baycollege.edu).

### Complete Orientation and Register for Classes

Bay College encourages all students to complete Orientation. Orientation is designed to introduce students to policies and procedures as well as provide valuable tools to assist with college success. Orientation delivery methods vary by semester and by student. Students are notified of available Orientation programs at the time of acceptance to Bay College.

### Pay for Classes

Check tuition due dates. Students can pay by check, credit card, or through the tuition payment plan. Students can sign up for the Facts Management Tuition Payment Program by logging into myBay at [mybay.baycollege.edu](http://mybay.baycollege.edu).

### Reach for Success

Visit the Library, Academic Support Services, and the Student Success Center. Find out about tutoring services and services for students with disabilities.

### Engage in Campus Life

Develop leadership skills by getting involved in the Campus Activities Board or any one of our many campus clubs and organizations. Visit the Northern Lights YMCA. Contact the Director of Student Life for details.

## **ADMISSIONS REQUIREMENTS**

Any student who has graduated from high school, or who has obtained a General Education Diploma (GED), or who is 18 years of age, is eligible for admission. Admission to Bay College does not ensure placement in all courses or programs. Many courses have prerequisites, and some programs have additional admission requirements. Students who do not meet the admission criteria may apply for special admission.

Students who are at least 18 years of age and without a high school diploma or GED, will not be eligible to apply for financial aid under financial aid regulations.

Bay College reserves the right to refuse admission and/or continued enrollment if the College determines that the applicant/student is a threat or potential danger to the college community or if such refusal is considered in the best interest of the College.

Bay College retains the right to deny/revoke admission/enrollment of any applicant or student who was convicted of a crime requiring listing on the sex offender registry. A registered sex offender is defined as any person who is required pursuant to State or Federal law to be registered on any Criminal Information Network and/or the National Crime Information Center Convicted Sexual Offender registry.

Bay College will monitor the sex offender registry list to identify persons on the list who have been convicted of a crime requiring listing on the sex offender registry and are applying for admission to or enrolled in Bay College. Individuals convicted of a crime requiring listing on the sex offender registry are required to inform the Director of Admissions of their status at the time they seek admission to the College. Failure to comply with notification requirements may result in immediate denial of admission or expulsion from the College.

### **Admissions paperwork may be submitted to one of the following:**

MAIL: Admissions Office, Bay de Noc Community College, 2001 North Lincoln Road, Escanaba, MI 49829

FAX: 906-217-1714 (for approved documents only)

EMAIL: [admissions@baycollege.edu](mailto:admissions@baycollege.edu) (for approved documents only)

## **ADMISSIONS PROCEDURES FOR NEW AND TRANSFER STUDENTS**

New and Transfer students to Bay College should follow the application process as indicated below:

### **Transferring in Credit:**

In addition to completing all other application procedures as listed below, transfer students must request official transcripts from all colleges or universities previously attended be sent to Bay College.

It is the policy of Bay de Noc Community College Board of Trustees to award transfer credit for work successfully completed at other regionally accredited institutions. Not more than 45 semester hours of credit from other institutions can apply toward a degree granted by Bay College. A minimum of 17 hours must be completed at Bay College to earn a degree with hours transferred from other colleges. Grade point averages do not transfer and are not computed in Bay College's GPA.

### **Application Process for New and Transfer Students**

1. Apply online at [www.baycollege.edu](http://www.baycollege.edu).
2. All students, except non-degree or guest, should submit ACT or SAT scores (if available) and must take an appropriate assessment unless an exemption applies. Students attempting exemption from placement scores must provide appropriate documentation.
3. Current high school seniors interested in being considered for scholarships to Bay College should request a current official high school transcript be sent to the Admissions Office at Bay College.

## **ADMISSIONS PROCEDURES FOR FORMER STUDENTS**

If you have successfully completed coursework at Bay College (post high school) within the past 365 days, you need only update your name, address and telephone number in the Admissions Office.

Students who have not attended classes within the past 365 days must re-apply for admission by completing the application process as indicated below.

### **Application Process for Former Students**

1. Apply online at [www.baycollege.edu](http://www.baycollege.edu).
2. All students, except non-degree or guest, should submit ACT or SAT scores (if available) and must take the placement assessments unless an exemption applies. Students attempting exemption from placement scores must provide appropriate documentation.

## **ADMISSIONS PROCEDURES FOR GUEST STUDENTS**

If you are currently enrolled at another college or university and are interested in completing a course or two at Bay College with the intent to transfer credits back to your home institution, follow the application process below for Guest Students.

### **Application Process for Guest Students**

1. Secure a Michigan Uniform Guest Application from the institution where you are currently enrolled or online at [www.baycollege.edu](http://www.baycollege.edu).
2. Application must be signed by the registrar or designated officer at the issuing institution.
3. The application should be returned to Bay de Noc Community College's Admissions Office.
4. Students should consult with their university regarding course transfer prior to enrolling as a guest student at Bay College.

## **ADMISSIONS PROCEDURES FOR DUAL ENROLLED HIGH SCHOOL STUDENTS**

The Michigan Postsecondary Enrollment Options Act, also known as Dual Enrollment, allows for eligible high school students the opportunity to be enrolled in both high school and college at the same time. When all of the criteria identified by the state are met, the student's tuition and fees may be paid for by their school district.

### **Application Process for Dual Enrolled High School Students**

Bay College provides an opportunity for eligible high school students to dual enroll while completing their high school graduation requirements.

1. Meet with high school principal or guidance counselor.
2. Complete the Bay College Dual Enrollment application for admission.
3. Provide PSAT, ACT, SAT or assessment placement scores to determine eligibility.  
(Contact Student Services for placement assessment information)
4. Complete the Student/Parent Authorization Contract.
5. Complete the registration process with your high school or college official.

### **Application Process for Dual Enrolled Home School Students**

Bay College provides an opportunity for eligible students attending a Nonpublic Home School Program to enroll in college courses. This program is provided to supplement the student's educational plan and to offer educational enrichment in courses and academic areas not available in the student's home school setting.

1. Meet with academic advisor to discuss educational plan each semester.
2. Complete the Bay College Dual Enrollment application for admission.
3. Provide PSAT, ACT, SAT or assessment placement scores to determine eligibility.  
(Contact Student Services for placement assessment information)
4. Complete the Student/Parent Authorization Contract.
5. Complete the registration process with the college official.

## **ADMISSIONS PROCEDURES FOR INTERNATIONAL STUDENTS**

All International students should visit the Bay College Admissions website for specific admissions procedures.

## **ORIENTATION**

Bay College encourages all students to complete Orientation. Orientation is designed to introduce students to policies and procedures as well as provide valuable tools to assist with college success.

Orientation delivery methods vary by semester and by student. Students are notified of available Orientation programs at time of acceptance to Bay College.

## **RESIDENCY GUIDELINES**

Educational costs at Bay de Noc Community College are shared by students, the taxpayers of Delta and Dickinson Counties, and the State of Michigan. Property taxes paid by residents of Delta County and Dickinson County supplement student tuition and state aid for Delta County or Dickinson County status students; therefore, the tuition charged legal residents of Delta County or Dickinson County is lower and students who are classified as out-of-state residents are charged the highest tuition.

At Bay College, a student's residency determines the tuition rate. A student's residency is collected on the application for admission or at the initial semester of enrollment. The College has the right to verify a student's place of residence. Please see Board Policy 4002 for further information.

1. **Delta County or Dickinson County resident:**
  - a. A student whose intended true, fixed and permanent residence is located within either Delta or Dickinson County, and to which the individual intends to return whenever he/she is absent from the College

- b. A student who has moved to Delta or Dickinson County for the primary purpose of employment.
- c. A student who has married a resident of Delta or Dickinson County and takes up residence in that county.

**2. Michigan or Reciprocity County resident**

- a. A student who resides within Michigan but not within Delta or Dickinson County.
- b. A student residing in one of the following Wisconsin reciprocity counties: Ashland, Barron, Bayfield, Brown, Burnette, Door, Douglas, Florence, Forest, Iron, Kewaunee, Langlade, Lincoln, Marinette, Oconto, Oneida, Polk, Rusk, Sawyer, Shawano, Vilas, Washburn.

**3. Out of State**

- a. A student whose residency is outside of Michigan and not within a reciprocity county listed above.
- b. A student who is a foreign national requiring international student services, will be considered an out of state student.

**4. Military**

- a. The following individuals will be charged the instate tuition unless he/she qualifies as a Delta or Dickinson County resident as described in section 1 above:
  - i. Any individual using educational assistance under either Chapter 30 (Montgomery GI Bill® - Active Duty Program), Chapter 33 (Post-9/11 GI Bill®), of title 38 United States Code, and/or the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 311(b)(9)) who lives in the State of Michigan while attending Bay de Noc Community College (regardless of his/her formal state of residence)

**Change of Residence Status:** Changes in residency status will be initiated at the time a student updates their address with the institution. Any adjustments made in tuition due to a change in residency status shall not be retroactive nor changed within a semester.

**Residency Audit:** Bay de Noc Community College may verify residency during periods of enrollment. Discrepancies in residency information may result in a hold preventing the student from registering for the next semester until the conflicting information has been resolved. Students who have deliberately misrepresented information or have falsified documents may be subject to disciplinary action.

## **ASSESSMENT/PLACEMENT**

Bay College uses the assessment process (ACT, SAT, COMPASS, ALEKS or Accuplacer) to measure your skill level in writing, reading, and mathematics. Assessment scores must be submitted prior to enrolling in specific courses. Assessment scores assist advisors in determining appropriate course placement to maximize the student success in college-level courses. The COMPASS assessment is a free service to students.

1. For course placement purposes, most students new to Bay College will be required to take placement assessments in English (writing), reading, and mathematics prior to registering.
2. Exemptions to assessment include:
  - a. Those students with ACT scores of 18 or higher in English AND Reading or SAT Evidence-Based Reading and Writing scores of 480 or higher that are not more than three years old are exempt from assessment testing in English and reading. Those students with ACT scores of 20 or higher in math or SAT Math score of 280 and above that are not more than three years old are exempt from assessment testing in math.
  - b. Those with a minimum grade of “C” in the equivalent of a college-level freshman composition course and a college-level algebra course, based on official documentation. This would include appropriate scores on AP courses and CLEP.
  - c. Those students with documented transfer credits in college-level composition courses will be exempt from the English (writing) and reading portion of the assessment. Those students with official documented transfer credit in intermediate algebra or higher will be exempt from the math portion of the assessment.
  - d. Students with completed official college guest application forms for the current semester.
  - e. Those enrolling ONLY in courses with no prerequisites as printed in the current Bay College catalog.
  - f. Those taking non-credit courses, courses for Continuing Education Units (CEUs), or auditing a course.
3. Mandatory placement into basic writing, reading, and mathematics courses will be based on assessment scores.
4. English, reading, and mathematics basic skills prerequisites for college classes are listed in the course description section of the College catalog as E – English Composition, R – Reading, or M – Mathematics. For these courses, students must obtain minimum scores on those assessment sections or successfully complete the required prerequisite courses at Bay College prior to registration for those classes.

5. Students may retake each portion (writing, reading, mathematics) of the assessment battery two times every 365 days.
6. Students who have not been enrolled within the past three (3) years must take the assessment unless an exemption applies.
7. Upon request, students with disabilities, with documentation on file in the Office of Special Populations, will be provided special assessment accommodations.



## College Success Strategies ~ FYE 101 ~

You will learn skills and strategies necessary for success in college, but also in the workplace and life! Emphasis is placed on learning goal-setting, self-motivation, time management, emotional intelligence, self-awareness, collaboration, and personal responsibility. In addition, you will learn basic study skills and testing-taking skills.

You may never again have an opportunity like this one to discover how to create a rich, personally fulfilling life. We encourage you to make the most of this extraordinary opportunity! If you do, you will dramatically change the outcome of your life for the better! Register for this course today!



## Your success matters.

**Placement for Success** requires students to have appropriate placement scores (SAT, ACT, ACCUPLACER, ALEKS, COMPASS, or PSAT) prior to registering for specific courses.

The Placement Tables indicate which English (writing), reading, and math courses students will be placed into based on their achieved scores. English “E”, reading “R”, and math “M” prerequisites are found in the course description section of the catalog. For certain courses, students must obtain minimum scores on those assessment sections or successfully complete the required prerequisite courses at Bay College prior to registration for those classes.

TS = Transitional Studies Courses

*Transitional Studies course credits do not apply toward any certificate or degree and will not transfer.*

SAT SCORES		
EVIDENCE-BASED READING AND WRITING		
0-479	ENGL 098	Integrated Reading & Writing Skills (TS)
480 and Above Meets “E” & “R” requirement	ENGL 101	Rhetoric & Composition
MATH		
200-429	MATH 085	Pre-Algebra (TS)
385-509	MATH 098	Accelerated Pre & Basic Algebra (TS)
430-509	MATH 095 MATH 102	Basic Algebra (TS) or Intro to Technical Math
430-479	MATH 097	Mathematical Literacy (TS)
480 and Above Meets “M” requirement	BUSN 177 MATH 107	Mathematics of Business or Liberal Arts Math
510-569	MATH 105 MATH 106	Intermediate Algebra or Technical Algebra & Trig I
570-639	MATH 110 MATH 210	College Algebra or Intro to Statistics
640 and Above	MATH 111 MATH 141	Trigonometry or Analytical Geometry & Calculus I (if high school trig completed)

ACCUPLACER SCORES		
ENGLISH / WRITING (WRITEPLACER)		
0-3	ENGL 098	Integrated Reading & Writing Skills (TS)
4	ENGL 098, or if “R” is met, ENGL097W & designated section of ENGL101	Integrated Reading & Writing Skills (TS) OR College Writing Skills Workshop (TS) and Rhetoric & Composition
5 and Above Meets “E” requirement	ENGL 101	Rhetoric & Composition
READING (NEXT GENERATION READING)		
0-244	ENGL 098	Integrated Reading & Writing Skills (TS)
245 and Above Meets “R” requirement	ENGL 101	Rhetoric & Composition

ALEKS SCORES		
MATH		
0-13	MATH 085	Pre-Algebra (TS)
13-29	MATH 098	Accelerated Pre & Basic Algebra (TS)
14-29	MATH 095 MATH 102	Basic Algebra (TS) or Intro to Technical Math
14-24	MATH 097	Mathematical Literacy (TS)
25 and Above Meets “M” requirement	BUSN 177 MATH 107	Mathematics of Business or Liberal Arts Math
30-45	MATH 105 MATH 106	Intermediate Algebra or Technical Algebra & Trig I
46-60	MATH 110 MATH 210	College Algebra or Intro to Statistics
61-75	MATH 111	Trigonometry
76-100	MATH 141	Analytical Geometry & Calculus I (if high school trig completed)

ACT SCORES		
ENGLISH		
0-11	ENGL 098	Integrated Reading & Writing Skills (TS)
12-17	ENGL 098, or if "R" is met, ENGL097W & designated section of ENGL101	Integrated Reading & Writing Skills (TS) OR College Writing Skills Workshop (TS) and Rhetoric & Composition
18 and Above Meets "E" requirement	ENGL 101	Rhetoric & Composition
READING		
0-17	ENGL 098	Integrated Reading & Writing Skills (TS)
18 and Above Meets "R" requirement	ENGL 101	Rhetoric & Composition
MATH		
0-16	MATH 085	Pre-Algebra (TS)
16 -19	MATH 098	Accelerated Pre & Basic Algebra (TS)
17-19	MATH 095 MATH 097 MATH 102	Basic Algebra (TS) or Mathematical Literacy (TS) or Intro to Technical Math
20-22 Meets "M" requirement	BUSN 177 MATH 105 MATH 106 MATH 107	Mathematics of Business or Intermediate Algebra or Technical Algebra & Trig I or Liberal Arts Math
23-25	MATH 110 MATH 130 MATH 210	College Algebra or Math for Elementary Teachers or Intro to Statistics
26-36	MATH 111 MATH 141	Trigonometry or Analytical Geometry & Calculus I (if high school trig completed)

COMPASS SCORES		
ENGLISH/ WRITING		
0-29	ENGL 098	Integrated Reading & Writing Skills (TS)
30-68	ENGL 098, or if "R" is met, ENGL097W & designated section of ENGL101	Integrated Reading & Writing Skills (TS) OR College Writing Skills Workshop (TS) and Rhetoric & Composition
69 and Above Meets "E" requirement	ENGL 101	Rhetoric & Composition
READING		
0-77	ENGL 098	Integrated Reading & Writing Skills (TS)
78 & Above Meets "R" requirement	ENGL101	Rhetoric & Composition
MATH		
Pre-Algebra		
0-40	MATH 085	Pre-Algebra (TS)
35 - 100	MATH 098	Accelerated Pre & Basic Algebra (TS)
41-100	MATH 095 MATH 097 MATH 102	Basic Algebra (TS) or Mathematical Literacy (TS) or Intro to Technical Math
Algebra		
0-40	MATH 095 MATH 097 MATH 102	Basic Algebra (TS) or Mathematical Literacy (TS) or Intro to Technical Math
41-65 Meets "M" requirement	BUSN 177 MATH 105 MATH 106 MATH 107	Mathematics of Business or Intermediate Algebra or Technical Algebra & Trig I or Liberal Arts Math
66-100	MATH 110 MATH 130 MATH 210	College Algebra or Math for Elementary Teachers or Intro to Statistics
College Algebra		
0-45	MATH 110 MATH 130 MATH 210	College Algebra or Math for Elementary Teachers or Intro to Statistics
46-100	MATH 111	Trigonometry
Trigonometry		
0-100	MATH 111 MATH 141	Trigonometry or Analytical Geometry and Calculus I (if high school trig completed)

## **TRANSITIONAL STUDIES**

Bay College is committed to student success. Students are required to enroll in courses based on the assessment scores provided at the time of admission. If a student's ACT or SAT scores indicate that he or she is not college-ready, the student will be required to take the Accuplacer, Writeplacer, and/or ALEKS assessment. Students who do not meet the Reading (R), English (E), and/or Math (M) prerequisites for college-level courses will need to enroll in Transitional Studies (TS) courses.

Transitional Studies courses are designed to assist students in reaching their educational goals; however, credits earned in these courses DO NOT fulfill degree requirements. Students enrolled in these courses will be advised as follows:

- Students will be able to enroll in up to 12 credit hours, including the Transitional Studies courses.
- During the semester, students will meet with their academic advisors for consultation prior to scheduling future courses.
- Students who test into reading, English, and math TS courses will be required to enroll in FYE101, College Success Strategies. This 3-credit course fulfills degree requirements as elective credit. It is designed to help students transition into college. Students will learn skills and strategies necessary for their success in college, in the workplace, and in life.

Upon completing 12 credit hours with an overall "C" average, students will have access to the online myBay registration system. However, frequent meetings with an advisor are still strongly encouraged.

Please review the *Placement for Success* Table [on page 20] to determine course placement. If a student feels that his or her placement scores do not accurately reflect his or her ability, the student is encouraged to spend some time reviewing subject material and retake the appropriate assessments. Students are permitted to retake each assessment two times every 365 days.

For more information about Transitional Studies, please contact Jennifer McCann, Transitional Studies Coordinator, at 906-217-4006, 800-221-2001, Ext. 4006, or via email at [mccannj@baycollege.edu](mailto:mccannj@baycollege.edu).

## **Current Transitional Studies Offerings**

MATH-085 – Pre-Algebra (4 credits)

MATH-095 – Basic Algebra (4 credits) (*Satisfies the M when completed with a grade of "C" or higher*)

MATH-097 – Mathematical Literacy (4 credits) (*Satisfies the M when completed with a grade of "C" or higher*)

MATH-098 – Accelerated Pre and Basic Algebra (*Satisfies the M when completed with a grade of "C" or higher*)

ENGL-097W – College Writing Skills Workshop (2 credits) (Must be taken concurrently with a designated section of ENGL 101 – Rhetoric and Composition)

ENGL-098 – Integrated College Reading and Writing Skills (4 credits) (*Satisfies the E and R when completed with a grade of "C" or higher*)

BIOL-090 – Fundamentals of Biology (3 credits)

CHEM-090 – Fundamentals of Chemistry (4 credits)

OIS-090 – Beginning Keyboarding (2 credits)

CIS-090 – Basic Computer Literacy (1 credit)

# Financial Aid & Scholarships

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## **FINANCIAL AID OFFICE**

Location: Student Center  
Office Hours: Monday-Friday; 8 a.m. – 4:30 p.m.  
Telephone: 800-221-2001 or 906-217-4020

Bay de Noc Community College brings quality and affordability in education to area communities. The mission of the Financial Aid Office at Bay College is to provide assistance to students and their families in meeting the financial costs of attaining a higher education degree. This supports the mission of the College to enhance people's lives by providing educational opportunities to all students. Located in the Student Services Department, the Financial Aid Office is committed to providing the information needed to apply for federal, state, and institutional aid, as well as veterans' benefits.

## **ELIGIBILITY**

To be eligible for Federal and State of Michigan programs you must:

1. Be a U.S. citizen or eligible non-citizen with a valid social security number.
2. Have a high school diploma or its equivalent of
  - a) GED; or
  - b) Completed home schooling
3. Not be in default on a federal student loan or owe a refund on a federal student grant.
4. Be enrolled or accepted for enrollment in an eligible program of study, pursuing a degree, certificate, or other recognized credential.
5. Make satisfactory academic progress toward completing your degree or certificate.
6. Not have been convicted of possessing or selling illegal drugs while receiving federal student aid.
7. If you are a male and over the age of 18, be registered with the Selective Service.
8. Have been a continuous resident of Michigan for 12 months to be considered for State of Michigan programs.

## **APPLYING FOR AID**

In order to receive financial aid you must:

1. Be accepted for admission to Bay de Noc Community College.
2. Complete the Free Application for Federal Student Aid (FAFSA) online at [www.fafsa.gov](http://www.fafsa.gov) by March 1 of the award year to receive full consideration for all types of aid. You, and your parent if you are required to provide parental information, should sign the form electronically using an FSA ID. Both you and your parent must apply for an FSA ID at <https://fsaid.ed.gov>. When filling out your FAFSA, select Bay de Noc Community College as a college eligible to receive your FAFSA information. (Bay de Noc Federal code is 002240.)
3. Respond promptly to any requests from the Financial Aid Office for additional information. Approximately 30% of all FAFSA filers are selected by the Department of Education for a process known as verification. Our office will request additional documentation from you (and your parent(s) if you are a dependent student) to complete this process. A prompt response to our request can avoid lengthy delays in processing your aid.
4. Enroll in classes at Bay de Noc Community College. Only credit hours that are required for your major will be used in calculating the amount of your federal financial aid grants and loans. If you enroll in classes at both Bay and another college (concurrent enrollment), you must contact our office for information regarding the processing of your financial aid.
5. Reapply for financial aid every academic year.

## **SALT**

Bay College has partnered with American Student Assistance® (ASA) to provide a resource to students and alumni called SALT®. SALT is a dynamic, multichannel financial education and debt management program that educates, and engages our students to take control of their finances. Join for free today at [saltmoney.org/baycollege](http://saltmoney.org/baycollege).

## **ENROLLMENT STATUS**

Your enrollment status directly affects the amount of most federal and state financial aid you are eligible to receive. Initial awards are offered based on the assumption that you will enroll full time. Below is a chart of the enrollment status requirements:

Full-time.....12 or more semester credits required for your major  
Three-quarter time.....9-11 semester credits required for your major  
Half-time.....6-8 semester credits required for your major  
Less-than-half time.....5 or less semester credits required for your major

If you enroll less than full-time, you may see a reduction to your award(s). You must enroll for at least six credits required for your major to be eligible to receive either work-study or a Federal Direct loan. You must be enrolled for a minimum of six contact hours to receive scholarship funds. (See "Institutional Scholarships" for information in regards to continuing and returning student eligibility.)

## **COST OF ATTENDANCE**

The cost of attendance is an estimate of educational expenses for your period of enrollment. The standard budget at Bay de Noc Community College includes tuition and fees, books and supplies, an allowance for miscellaneous personal expenses, an allowance for transportation, an allowance for room and board, and the average fees for students who borrow a Federal Direct Loan. Current cost of attendance figures can be found on the financial aid page of our website at [www.baycollege.edu](http://www.baycollege.edu).

## **TYPES OF FINANCIAL AID**

1. Grants and scholarships that you do not need to repay.
2. Low interest loans that you will need to repay.
3. Student employment called "work-study" where you earn the monies through part-time employment opportunities.

## **FEDERAL AND STATE GRANTS AND SCHOLARSHIPS**

### **Federal Pell Grant (Pell):**

This federal program provides grant assistance to students who demonstrate high financial need. To apply, you must complete a Free Application for Federal Student Aid (FAFSA).

### **Federal Supplemental Educational Opportunity Grant (FSEOG):**

This federal program offers grant assistance to students who demonstrate high financial need. At Bay de Noc Community College the grant is offered as a supplement to the Federal Pell Grant. The average award at the College is \$100 per semester. To apply, you must complete a Free Application for Federal Student Aid (FAFSA).

### **Michigan Competitive Scholarship (MCS):**

This state program is awarded to Michigan students who demonstrate both financial need and academic potential, as determined by the ACT test. You should take the ACT test during your junior, or early in your senior year in high school. To apply, you must complete a Free Application for Federal Student Aid (FAFSA). You must be enrolled for at least half time (minimum of six semester credit hours) to receive funds from this program.

### **Michigan Indian Tuition Waiver:**

To be eligible for the Michigan Indian Tuition Waiver, you must be one-fourth Native American as certified by your Tribal Enrollment Department, be an enrolled member of a U.S. Federally-recognized Tribe, and a legal resident of the state of Michigan for no less than 12 consecutive months. You must obtain blood quantum certification from your tribal certifier. The Tuition Waiver pays for tuition only and is good throughout the duration of your academic career. You should contact the Financial Aid Office for application information.

### **Michigan Tuition Incentive Program (TIP):**

The Tuition Incentive Program (TIP) encourages eligible Medicaid recipients to complete high school by providing tuition assistance for college. If you are identified as TIP eligible, the State of Michigan's Student Scholarships and Grants (SSG) will send you a notification to complete an application via the MiSSG Student Portal at [www.michigan.gov/missg](http://www.michigan.gov/missg). The application must be completed before August 31 or your graduating year. You must initiate benefits within four years of high school graduation or GED completion. This program has two phases. Bay College participates in Phase One.

Phase One will pay tuition and mandatory fees (does not include course specific fees, contact hours, lab or college admission fees) for classes toward an associate degree or certificate. TIP will only pay for credit hours required for your current program and will only assist with certificates that have at least 30 credit hours. The program will pay up to a maximum of 80 credits, however, only 24 credits per academic year. You must be enrolled at least half time to receive funds from this program.

## **INSTITUTIONAL SCHOLARSHIPS**

The scholarship program at Bay College is supported by contributions from organizations and individuals in the community. An independent Scholarship Review Committee reads and ranks the applications to determine scholarship eligibility. Awards are made on the basis of the criteria of the donor and on the qualifications of the student.

Both new and returning students wishing to be considered for a scholarship must complete a Scholarship Application and be admitted to Bay College by the scholarship deadline date. March 15 is the application deadline for full-year consideration. October 15 is the application deadline for winter only consideration.

## **ADDITIONAL SCHOLARSHIP OPPORTUNITIES**

Several companies have made scholarship search engines available on the Internet to students for free. These include but are not limited to:

- SALT – [www.saltmoney.org/baycollege](http://www.saltmoney.org/baycollege)
- FinAid – [www.finaid.org](http://www.finaid.org)
- Big Future by the College Board – <https://bigfuture.collegeboard.org/scholarship-search>
- Fastweb – [www.fastweb.com](http://www.fastweb.com)
- U.S. Department of Labor - <http://careerinfonet.org/scholarshipsearch/ScholarshipCategory.asp?searchtype=category&nodeid=22>

You should never pay for financial aid scholarships or information. If a website or agency requests payment from you, do not give any financial information.

## **VETERANS BENEFITS**

If you qualify for veterans benefits, the Director of Financial Aid is available to help you complete the application for educational benefits and to certify your enrollment. If you are a veteran who is disabled from a service-connected injury, you can receive information on how to apply for VA Vocational Rehabilitation benefits through the Financial Aid Office. Benefits are also available if you are an eligible dependent of a veteran who is deceased or totally disabled because of service-connected causes.

Each semester, at the time of registration, you must request certification by submitting the VA Registration Certification form to the Certifying Official in the Financial Aid Office. Certification can only be completed for courses required to satisfy your graduation requirements. Once your schedule has been certified, any schedule changes must be reported to the VA Certifying Official.

## **STUDENT LOANS**

Loans consist of borrowed funds, which must be repaid. Each loan program, whether federal or alternative, has certain maximum limits for borrowing; however, students may not borrow more than the cost of attendance less any other financial aid received. Student must accept the loan offered each year and make progress in obtaining their degree according to the Satisfactory Academic Progress Policy (SAP).

Federal law requires first-time borrowers of Federal Direct Loans to complete an entrance counseling session and a master promissory note before loan funds can be disbursed. Exit counseling is subsequently required when they graduate, withdraw, or otherwise cease to attend school at least half-time.

- **Federal Direct Subsidized Loan** -Your interest is paid by the federal government while you are in school. Interest will begin when you are no longer enrolled at least half time at a college or university.
- **Federal Direct Unsubsidized Loan** - The same terms apply as for the subsidized loan, however, you are responsible for the interest payments while you are in school, during periods of authorized deferment, and during your grace and repayment periods.
- **Federal Direct PLUS Loans** - These loans are available for parents of dependent undergraduate students. Lenders will perform a standard credit check with a national credit bureau before approving the loan. The Financial Aid Office will determine if the student is eligible for his/her parent to apply for a PLUS loan.

Lenders of alternative loans will have their own requirements to complete before loan funds can be disbursed.

## **WORK-STUDY EMPLOYMENT**

Employment opportunities on campus are offered through the Federal Work-Study Program. Off campus employment with local nonprofit, government, and community-based organizations is available using Federal Work-Study Community Service funds. You must complete a Free Application for Federal Student Aid (FAFSA) and exhibit financial need to be evaluated for this program. Your award reflects the maximum amount that you may earn. The actual amount of your earnings will depend on the number of hours you work and your rate of pay. You must be enrolled at least half time to receive these funds.

A Work-Study Application Packet, which can be obtained in the Financial Aid Office, must also be completed and on file. A Work-Study award is not a guarantee of employment, but early applicants have the best chance of being offered a position.

## **PROCESSING OF FINANCIAL AID**

1. Financial aid is awarded to students on a first-come, first served basis. Some programs have a limited amount of funding available. As such, it is important that you complete your Free Application for Federal Student Aid as soon as possible after October 1 each year for the following academic year. Eligibility criteria for aid programs vary so not all students are eligible for all programs.
2. If you are eligible for some type of financial aid, the Financial Aid Office will mail you an award letter stating your financial aid package for the academic year. Taking out a loan is a serious commitment.
3. If you have financial aid, you will see your estimated financial aid on your myBay account on the Student Billing tab. Pell Grants will be adjusted as needed to reflect your actual enrollment status until Fee Liabile date. Keep this in mind as you are making schedule changes.
4. The My Student Account Info on the Student Billing tab of myBay will show your total cost of tuition, fees, housing, and bookstore charges less the amount of financial aid available. If your expenses are greater than your estimated financial aid, you will have an amount due. You will need to make payment arrangements with the Student Accounts Office. Tuition due dates can be found on the Student Billing tab.
5. If your estimated financial aid is greater than your expenses, you have a credit balance and can charge on-campus housing expenses and, with a signed authorization, your books and supplies, up to the credit balance.
6. Federal financial aid (Pell Grants, FSEOG, and Direct Subsidized/Unsubsidized Loans) will be disbursed in four disbursements throughout the semester. Disbursements of these funds are scheduled for the 4<sup>th</sup>, 6<sup>th</sup>, 9<sup>th</sup>, and 12<sup>th</sup> weeks of the semester. Other financial aid such as scholarships, veteran's benefits, and state programs are generally disbursed during the 4<sup>th</sup> week of the semester in one lump sum.
7. Financial aid is awarded for the fall and winter semesters. If you plan to attend during summer 1 or summer 2 semester, you should contact the Financial Aid Office to discuss any remaining eligibility for aid.

## **WITHDRAWALS**

If you withdraw from school during the semester, the law requires the Financial Aid Office to determine the amount of the federal financial aid (grants or Federal Direct loans) that you have earned. If you received more aid than you earned, the excess funds must be returned. The amount of aid that you have earned is based on the amount of time that you spend in academic attendance; it has no relationship to the institutional charges that you may have incurred. For example, if you completed 30 percent of the semester, you earned 30 percent of the aid you were offered. Once you have completed 60 percent of the semester, or approximately 63 days of attendance, you are considered as having earned all of your financial aid. If no date is recorded for your last date of attendance, the Financial Aid Office will assume that you completed 50 percent of your coursework, and your eligibility for aid will be calculated using the 50 percent figure.

The Financial Aid Office will calculate the return of funds and notify you of the amount of aid that you are now eligible to receive. You must make arrangements to repay any funds that you are no longer eligible to receive with the Student Accounts Office. If you withdraw from classes after you are mailed an overage check, you may need to return some of those funds.

If you have borrowed any loan funds, they must be repaid in accordance with the terms of your promissory note. That is, you make scheduled payments over a period of time to the holder of the loan.

Bay de Noc Community College will return Title IV funds to the programs from which you received aid during the payment period, in the following order, up to the net amount disbursed from each source:

1. Federal Direct Unsubsidized loan
2. Federal Direct Subsidized loan
3. Federal Direct PLUS loan
4. Federal Pell Grant
5. Federal Supplemental Educational Opportunity Grant (FSEOG)

## **REPEATED COURSEWORK**

Federal regulations allow you to receive financial aid to:

- repeat previously passed courses once and
- repeat courses you have withdrawn from or failed until you receive a passing grade.

At Bay College, a passing grade is a D- or better.

## **FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS**

To be eligible for financial aid, students must be making Satisfactory Academic Progress (SAP) toward the completion of their Certificate or Associate Degree program. The following standards apply to all students receiving assistance from any federal, state, or Bay College scholarship programs.

The Financial Aid Office will monitor academic progress at the end of each semester and at the end of the Summer 1 and Summer 2 semester. This includes all attempted course work whether or not financial aid was received during the semester/session. To maintain financial aid eligibility, three distinct criteria are monitored and must be met:

1. **Quantitative Standard:** Students must pass a minimum 2/3 of all attempted credits at Bay College. The chart below is an example of how the credit hours attempted each term are measured to determine the completion rate (Pace Progression):

Total Attempted Credit Hours	Completed Credit Hours Required to Keep Pace	Total Attempted Credit Hours	Completed Credit Hours Required to Keep Pace	Total Attempted Credit Hours	Completed Credit Hours Required to Keep Pace	Total Attempted Credit Hours	Completed Credit Hours Required to Keep Pace	Total Attempted Credit Hours	Completed Credit Hours Required to Keep Pace
1	1	20	14	39	26	58	39	77	52
2	2	21	14	40	27	59	40	78	52
3	2	22	15	41	28	60	40	79	53
4	3	23	16	42	28	61	41	80	54
5	4	24	16	43	29	62	42	81	54
6	4	25	17	44	30	63	42	82	55
7	5	26	18	45	30	64	43	83	56
8	6	27	18	46	31	65	44	84	56
9	6	28	19	47	32	66	44	85	57
10	7	29	20	48	32	67	45	86	58
11	8	30	20	49	33	68	46	87	58
12	8	31	21	50	34	69	46	88	59
13	9	32	22	51	34	70	47	89	60
14	10	33	22	52	35	71	48	90	60
15	10	34	23	53	36	72	48	91	61
16	11	35	24	54	36	73	49	92	62
17	12	36	24	55	37	74	50	93	62
18	12	37	25	56	38	75	50	94	63
19	13	38	26	57	38	76	51	95	64

**For example: To stay on pace for an Associate Degree requiring 64 credits, a student cannot withdraw or fail more than 31 credit hours. For a certificate program requiring 32 credits, a student cannot withdraw or fail more than 15 credit hours.**

2. **Qualitative Standard:** Students must maintain a 2.0 cumulative grade point average (GPA).
3. **Maximum Timeframe Standard:** The number of **attempted credits** in which a student is expected to complete their degree or certificate cannot exceed 150% of the published length of the program. Withdrawals, repeats, and failed credits are all counted toward the Maximum Timeframe. This Maximum Timeframe standard is intended to be long enough to allow for changes in a major, transfer credits, withdrawn courses, etc.

### **Additional Satisfactory Academic Progress Requirements and Information**

- Attempted credit hours include all courses for which a student is registered at the end of the posted term add/drop period (census date).
- At Bay College, a grade of D- or above is considered passing.
- Grades of "I," "WP," "WF," "NP," and "F" do not count as successful completion, but are counted as attempted credit hours in the Pace Progression and Maximum Timeframe calculations.
- A student may **repeat a previously passed course** once and receive financial aid for it. A student may repeat a failed or withdrawn course until it is passed. Repeated courses count toward Pace Progression and Maximum Timeframe calculations.

- Changing an academic program more than once may not be considered as the basis for an appeal.
- Students that attend Bay after completing a Bachelor's Degree must appeal their financial aid eligibility in order to receive financial aid for an Associate Degree or Certificate.
- A student will be notified in writing (sent to his/her current address as reported in Student Records). It is the student's responsibility to keep the Student Records Office informed of your current address.

### Financial Aid Eligibility Statuses

1. **Good**—A student is maintaining all Satisfactory Academic Progress Standards.
2. **Warning**—A student is placed on one semester of financial aid Warning Status if he/she fails to maintain any or all of the Satisfactory Academic Progress Standards and has completed at least one course with a passing grade during the semester. To continue to receive awarded financial aid during the warning semester, the student will need to complete all portions of the Financial Aid Warning Contract. Performance during the warning semester determines subsequent action. If the aid recipient completes the required 2/3 of credit hours attempted and has maintained a minimum 2.0 cumulative GPA, the recipient will be returned to Good Status. If the recipient fails to satisfy the standards of the Satisfactory Academic Progress Policy, the recipient will be placed on financial aid Suspension status.
3. **Suspension**—A financial aid recipient is suspended from financial aid in either of two situations:
  - a. When a student does not demonstrate any academic progress by completing at least one course with a passing grade during the semester.
  - b. When a student on Financial Aid Warning fails to complete the minimum 2/3 of all attempted credits hours and/or does not establish a cumulative 2.0 GPA.
4. **Probation**—A student may be placed on probation if he/ she has successfully appealed their suspension status and demonstrates that he/she has the ability to earn a cumulative 2.0 GPA and 2/3 completion rate by the end of their next semester. If after one semester on probation the student is not back to Good Status, he/she will be suspended from financial aid.
5. **Academic Plan**--A student on suspension that has successfully appealed their suspension but cannot return to a Good Status within one additional semester must meet with an advisor and develop a Financial Aid Academic Plan. The Academic Plan must be strictly followed and the conditions set forth must be met. The student will remain on the Academic Plan until returning to a Good Status. If conditions are not met, the student will be placed on Suspension Status and will be responsible for paying for any additional classes needed to bring them back to the Good Status.

**All students on suspension must pay for school-related costs, including tuition, fees, and books from personal resources until SAP standards are again met. A student who does not meet the eligibility requirements due to special or extenuating circumstances may appeal.**

*There are two ways to re-establish eligibility for financial aid:*

1. **Meet standards:** Complete, at a student's own expense, enough credits to reestablish the required 2/3 pace standard and bring or maintain a cumulative GPA of 2.0 or above.
2. **Appeal:** If a student has extenuating circumstances, he/she may contact the Financial Aid Office via email [financialaid@baycollege.edu](mailto:financialaid@baycollege.edu) or calling 906-217-4020 to request a Financial Aid Satisfactory Academic Progress Appeal Form. The appeal must include why the student failed to meet these standards, what has changed that will allow the student to meet these standards, and appropriate supporting documentation as outlined in the Financial Aid Satisfactory Academic Progress Appeal Form. An appeal will not be considered unless documentation supporting your request is provided. Submitting an appeal does not guarantee reinstatement. If this appeal is approved, the student will be placed on Financial Aid Probation Status or Academic Plan Status.

*Examples of acceptable extenuating circumstances may include:*

- Illness that prevented the completion of coursework (provide documentation from your doctor indicating the onset, duration, severity of your illness and whether you are healthy enough to return to school).
- Major illness in the IMMEDIATE (spouse, child/stepchild, parent) family (provide documentation from the doctor indicating the onset, duration, and severity of the illness).
- Death of an IMMEDIATE family member (spouse, child/stepchild, parent). Provide copies of a death certificate or obituary notice.
- Other family emergencies that prevent completion of coursework.

### Maximum Timeframe Standard

A student's financial aid will be terminated upon reaching the maximum credit hours allowed. Please note: withdrawals, repeats, and failed coursework are counted toward the maximum timeframe.

A student has the right to request an extension of aid eligibility should they exceed or expect to exceed the 150% maximum attempted credits. The student will need to complete the Financial Aid Maximum Timeframe Appeal Form and follow a plan for completion based on a degree audit. Submission of an appeal does not guarantee approval.

If the student's Maximum Timeframe Appeal is approved, the student will be limited to courses *REQUIRED* for the completion of his/her degree or certificate, must maintain a minimum semester GPA of 2.0, and successfully complete **every** course listed on their degree audit in the first attempt (100% completion of attempted credits instead of 2/3). No repeats, withdrawals, failures, or incompletes will be allowed. Failure to meet these requirements will result in suspension of financial aid eligibility.

### **Submitting the Financial Aid Satisfactory Academic Progress Appeal or Maximum Timeframe Appeal Form**

A student with extenuating circumstances who wishes to appeal his/her financial aid denial status must complete either the Financial Aid Satisfactory Academic Progress Appeal Form or the Maximum Timeframe Appeal Form.

Incomplete appeal forms or appeals submitted without required documentation will be denied.

Appeals for students owing a repayment of financial aid due to withdrawal, whether official or unofficial, will not be reviewed until the outstanding balance is resolved.

You will be notified in writing of your appeal decision. You may appeal your Failure to Meet Satisfactory Academic Progress standards twice during your academic career at Bay College. You may submit a request for additional time only once during your academic career at Bay College.

An appeal based on a specific special circumstance will only be considered once for that circumstance. For example, your appeal for failure to meet the Financial Aid Satisfactory Academic Progress Standards is based on a specific chronic medical condition. You may not base any other appeal on that specific medical condition again.

### **Review of Financial Aid Appeals**

Financial Aid appeals will be reviewed on a case-by-case basis. This review could take up to 15 working days. Appeals not received before the start of a semester will not be considered for that semester but will be considered for the following semester.

**Denial of an appeal does not stop a student from taking courses at Bay College. However, the student must pay school-related costs, including tuition, fees, and books, from personal resources.**

## **STUDENTS' FINANCIAL AID RIGHTS AND RESPONSIBILITIES**

Students have the right to ask:

1. What the deadlines are for submitting applications.
2. How the cost of attendance is determined. The process includes how costs for tuition and fees, room and board, books and supplies, personal and miscellaneous expenses, etc. are considered in a budget.
3. What criteria are used to select financial aid recipients. This includes what resources (such as family contribution, other financial aid, your assets, etc.) are considered when calculating financial need.
4. What financial assistance is available, including information on federal, state, and institutional financial aid programs.
5. For an explanation of the various funds in their financial aid package. What portion of the aid received must be repaid and what portion is grant aid.
6. What the policies are for students who withdraw.
7. How academic progress is determined and what happens if they are not making progress.

It is the student's responsibility to:

1. Review and consider all information about Bay de Noc Community College's programs before enrolling.
2. Complete a financial aid application accurately and on time. Intentional misreporting on the application form for federal financial aid is a violation of the law and is considered a criminal offense subject to penalties under U.S. Criminal code.
3. Submit all additional documentation requested, and/or any corrections or new information.
4. Read, understand, and keep copies of all forms that you are asked to sign. Accept responsibility for all agreements signed.
5. Perform any Work-Study job in a satisfactory manner.
6. Know and comply with withdrawal procedures.
7. Know and comply with refund procedures.
8. Notify the Financial Aid Office of any changes in status. Failure to do so could jeopardize future aid eligibility.
9. Notify us if an agency is paying your fees; or if you are receiving a scholarship, fellowship, assistantship or traineeship.

# Student Financial Accounts

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## **FINANCIAL OBLIGATIONS**

### **Tuition**

Tuition for each semester is determined by contact hours (the number of hours a student must attend class, including lecture and laboratory sessions) per week. Fees are assessed based upon contact hours, course location, and/or course type (i.e. some lab courses include a fee for expenses incurred in the course such as supplies, liability insurance, etc.) Students are responsible for payment of tuition and fees by the applicable due dates. **Payments for tuition charges may be made at any time prior to the due dates; however, the final balance must be paid or you must be enrolled in a payment plan by the due date or your registration will be cancelled.**

Delta and Dickinson County citizens age 60 and over are exempt from tuition; however, these students are required to pay fees and purchase books.

Tuition and fees are subject to change by action of the Bay de Noc Community College Board of Trustees. Please visit the college's website at [www.baycollege.edu](http://www.baycollege.edu) and select the Admissions tab, and select Cost of College to determine the cost of tuition per semester contact hour and view the list of applicable fees.

### **Billing**

Bay College uses email as a formal mode of communication. E-billing notification to students' Bay College email is our default means of billing. Billing Statements will not be mailed unless students opt-in to receive statements by mail. To receive a paper statement by mail, please choose the "Opt-in For Statements" link located within the Billing folder under the Current Students tab in myBay.

**Financial Aid Students:** Students who are receiving financial aid through the College are responsible for any difference between aid and total tuition and fees.

### **Payment**

Tuition can be paid in any of the following ways:

1. Online via the "myBay" portal, "Billing" page. Online payment options include "Pay in Full" or "Enroll in Payment Plan". Payment can be made from a bank savings or checking account or with a credit card.
2. Check or money order via U.S. Postal Service to Bay College, Attn: Student Accounts, 2001 North Lincoln Road, Escanaba, MI 49829.
3. In person, Monday – Friday, 8 a.m. – 12 p.m. and 1 p.m. – 4:30 p.m. EST, at the Student Accounts Office located in Room 501 of Student Services or Monday – Friday 8 a.m.- 4 p.m. CST at the Bay West Student Services desk.

### **Payment Plan**

Payment plans are available through the FACTS (Nelnet Business Solutions) payment plan on "myBay". Students may register online in the "myBay" portal. Log into "myBay", select the "Current Students" tab, choose the "Billing" folder, select "My Account Balance", and select "Enroll in Payment Plan" option.

The payment plan may be adjusted for a change in a student's account balance. The student will receive notice of any increase in the preauthorized payment amount at least 10 days in advance of the next scheduled payment. Please do not assume the payment plan will be automatically decreased. Contact Student Accounts at 906-217-4062, to request and/or confirm adjustments to the payment plan.

The payment plan contract applies only to the semester in which the student is enrolled. Students must enroll each semester for the payment plan, if this option is desired.

### **Refund Policy**

Students will receive a refund of 100% of tuition and designated fees if a course is dropped within the period of 10% of the calendar days of the course. Exceptions may be made when warranted by unusual circumstances. Written appeals are made to the Appeals Committee. If a class is cancelled, a student will automatically receive a full refund of tuition and fees.

### **Non-Sufficient Funds**

Bay College will impose a \$25 service fee (per item) on NSF (non-sufficient funds) returned checks regardless of the amount of the check, or the reason it was returned.

# Records & Registration

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The Records Office is available to help students navigate the path to degree completion. The following pages include information the student needs to reach their goal of degree completion.

## DECLARING MAJORS

At the time of admission, a student's record is coded for their area of study. A student may change their major at any time or add an additional major. A student is then governed by the catalog in effect when they made the change. Changes may be made by submitting a Change of Major form to Student Services.

If degree or certificate requirements change, a student may request to be governed by a newer catalog, but may not declare a prior catalog. The student should complete the Change Catalog of Record Request form and submit the form to Student Services.

## CATALOG OF RECORD

When students enroll for academic credit at Bay College, their graduation requirements are governed by the catalog in effect at the time of their enrollment. This is known as the Catalog of Record. The Catalog of Record changes when:

1. A student is not enrolled for one year. When the student returns to Bay College the student is governed by the current catalog at the time of their return which becomes their Catalog of Record.
2. Requirements for the degree or certificate as listed in the catalog are revised and a student wishes to follow the newer catalog. The student must submit the request for the change to Student Services.
3. A student changes their major. The catalog in effect when the change is made becomes the student's Catalog of Record.

Archived catalogs are available online at the college website and myBay.

## DEGREE/CERTIFICATE PROGRESS

Students may track their progress toward degree completion by checking the College website > myBay > Current Students > Academic Advising. This will show the student their unofficial degree audit details. Students should work with their Academic Advisors to plan how they will complete their degree or certificate requirements.

## REGISTRATION

Students should work with their Academic Advisors, using their Catalog of Record, as they plan their registration for the each term. Tuition and fees are to be paid by the payment due date as posted. Students will not be permitted to register for classes until all outstanding financial obligations are met.

## **Records & Registration Warnings and Holds**

Bay College may place a warning message or hold on a student's record for a variety of reasons. A warning message does not prevent registration but indicate that a student must resolve a concern related to their record. A hold indicates that records cannot be released or a registration cannot be processed until the reason for the hold is resolved.

Types of "holds" include:

1. **Academic Warning/Hold:** a warning message or hold may be placed at the request of the Registrar blocking registration of a student for failure to maintain the standards outlined in the standards of academic progress.
2. **Financial Hold:** a hold may be placed at the request of the Student Accounts Office blocking registration of a student or the release of transcripts when the student has failed to discharge their financial obligations to the college.
3. **Library Resource Hold:** a hold may be placed by the library blocking registration of a student who has failed to return a library resource or who has failed to pay fines or charges owed to the library.
4. **Registration Hold:** a hold may be placed on a student's record for a variety of reasons. Students must contact the Records & Registration Office to resolve the cause for the hold.
5. **Declare Major Warning:** A warning message is placed on records for students who have graduated and are continuing to take classes but have not declared a new major. Students may register for classes, but they cannot be assigned an academic advisor and their financial aid may be affected. Students must contact the Registrar to resolve the issue.

## Adding Classes

During the first week of the Fall and Winter semesters a student can add a class on myBay. Additions during the second week of the semester are only allowed under special circumstances and with the permission of the instructor. Students seeking assistance with schedule changes should meet with their academic advisor. Limited schedule changes are allowed during the Summer 1 and Summer 2 terms. Refer to posted dates.

## Attendance Requirements

All students are expected to attend the classes for which they register. Attendance is considered when determining and disbursing financial aid.

**No Show:** If a student registers for a class, they must attend during the first week of the term.

For Traditional Classes, in order to be considered in attendance, a student must submit an academic graded assignment, take a graded exam, or attend a lecture. If they do not, they are reported as a "No Show" and are dropped from the class. This might affect their eligibility for financial aid.

For Online Classes, in order to be considered in attendance, before the end of the first week of the term students must do one of the following: 1) submit an academic graded assignment, 2) take a graded exam or interactive tutorial, 3) attend an assigned study group online, 4) participate in an academic and graded discussion forum, or 5) initiate contact with the instructor to ask questions about the academic subject matter in the course.

**Withdrawal:** Students must not simply stop attending classes. If they cannot complete the semester, they must withdraw. See below for specific guidelines for withdrawing from classes. Students who do not properly withdraw will receive a grade of "F". This may affect their eligibility for financial aid.

**Non-registered attendance:** Students who attend classes without being properly registered for the class will not receive credit for the course.

## Dropping and Withdrawing from Classes

A student may drop or withdraw from a class based on a timeframe and procedures explained below.

Semester/Term	Drop	Withdraw
Fall and Winter	First two weeks	Third through Tenth week
8 Week Class	First week	Second through Fifth week
Summer 1 and Summer 2	First four days	Day five through the Third week

Financial aid and GPA are connected to withdrawals and grades. Repeated withdrawals may impact eligibility for financial aid. You may wish to contact the Financial Aid Office prior to submitting the Course Change Form (see below) to the Records Office.

**Drop:** Classes that are dropped will be removed from the student's transcript and the student will receive a refund of class charges.

**Withdrawal:** If the student withdraws, the student will receive either a "WP" (withdrawal pass) or "WF" (withdrawal fail), based on the instructor's discretion. Students should refer to the class syllabi for the instructor's policies on assigning the withdrawal status. The "WP" or "WF" will appear on their transcript.

Students who stop attending classes and do not properly withdraw will receive an "F" for the class. This will also result in being liable for class charges. Students who register late for a class are held to the dates, deadlines, and procedures listed in the withdrawal policy.

**Procedure:** Students are responsible for initiating their withdrawal from a class; this does not happen automatically. Students can withdraw from a class by completing the *Course Change Form*. Students can obtain this form in Student Services or by going online to: myBay>Current Students>Forms, Docs, & Policies. It is the student's responsibility to accurately complete this form in its entirety and to obtain the required instructor's signature to withdraw from their class. Failure to follow this procedure will result in the student receiving an "F" for the class.

**Online Classes:** The student is responsible for emailing the instructor with their name, Bay College id#, course name, course number and a request to "withdraw" from an online class. The instructor can forward the email to [registration@baycollege.edu](mailto:registration@baycollege.edu) with a status of "WP" or "WF" and the last date of attendance. Failure to follow this procedure will result in the student receiving an "F" for the class.

**Withdrawal Appeal:** Students seeking to withdraw after the official withdrawal period are required to request an Administrative Appeal to the Executive Dean of Student Services. The appeal does not guarantee a withdrawal.

**WP/WF Appeal:** Students seeking to appeal the assigned WP/WF are required to request an Administrative Appeal to the Executive Dean of Student Services. The appeal does not guarantee a change.

**Military Deployment:** There is no penalty due to withdrawal for military personnel who are deployed. Transcripts will be marked "Military Deployment." Student Services will work with military students and veterans to assist them with completion of courses and degrees or certificates.

**Withdrawal from College:** It is the student's responsibility to officially withdraw from college by completing the Course Change Form and checking the "Withdraw from College" box. The form is available in Student Services at both campuses.

### **Course Cancellation**

There are times when classes listed in the schedule have to be cancelled. In the event a class is cancelled, the college will return tuition money paid by the student or make arrangements for the student to enter another appropriate class.

### **Auditing a Class**

Auditing a class allows a student to attend classes without the pressure of working for a grade. Students may register to audit a class during the regular registration periods. Students pay full tuition for auditing. Financial Aid may not be used to pay tuition for audited classes.

A credit class can be changed to an audit, but an audited class cannot be changed to a credit class. Changes can be made  
During the first four (4) weeks of a sixteen (16) week class.  
During the first two (2) weeks of an eight (8) week class.  
During the first week (1) of a six (6) week class.

Students must complete the appropriate form available in Student Services at both campuses or on myBay.

### **Repeating a Course**

A student may repeat any course that they have previously completed. However, the student must register for and pay tuition for the course. The original grade will remain on the transcript and a notation will be made that the course has been repeated. While the credit hours for the course will count both times for attempted hours, the credit hours earned for a repeated course count only once. The most recent grade will be recorded on the transcript and will replace the original grade in the calculation of the GPA. Grades of "W", "WP", "WF", "NP", "I", or "AU" will not replace the previous grade.

Students receiving financial aid should contact the Financial Aid Office to determine how repeating a course might affect their aid.

### **STUDENT CLASSIFICATION AND ENROLLMENT STATUS**

Classification is determined by the total credits earned toward a degree or certificate.

Freshman .....0-23 credits completed  
Sophomore.....24+ credits completed

Enrollment status is determined by the total credits for which the student has registered.

Full Time..... 12 or more semester credits  
Three-Quarter Time..... 9-11 semester credits  
Half Time ..... 6-8 semester credits  
Less-than-half time ..... 5 or less semester credits

Active military and veterans should contact Financial Aid regarding enrollment status and credit hour requirements for benefit payments.

### **ENROLLMENT VERIFICATIONS**

Students who must obtain enrollment verification for insurance purposes, housing, student discounts, etc. can print a verification online at myBay > Current Students > Registrar > Verification > Clearinghouse. This will take the student to a secure website administered by the National Student Clearinghouse. Select "Obtain an Enrollment Certificate" and print the document.

Students may also print In-School Deferment Forms through the Clearinghouse at myBay > Current Students > Registrar > Verification > Clearinghouse. This provides a direct link to the student's lender for a form.

## GRADES

### Grade Point Average (GPA)

For each grade a student receives, a certain number of honor points are earned. The higher the grade, the more honor points are earned. Honor points are used to calculate the grade point average (GPA).

Grade	Honor Points/Credit	Grade	Honor Points/Credit
A .....	4.0	I – Incomplete.....	0.0
A- .....	3.7	IP – In Progress.....	0.0
B+ .....	3.3	P – Pass .....	0.0
B .....	3.0	NP – No Pass.....	0.0
B- .....	2.7	W – Withdrawal .....	0.0
C+ .....	2.3	WP – Withdrawal Passing .....	0.0
C .....	2.0	WF – Withdrawal Failing .....	0.0
C- .....	1.7		
D+ .....	1.3	AP – Advanced Placement.....	0.0
D .....	1.0	AS – Advanced Standing.....	0.0
D- .....	0.7	AU – Audit .....	0.0
F.....	0.0	CL – CLEP .....	0.0
		NG – No Grade .....	0.0
		PM – Prerequisite Met.....	0.0
		TR – Transfer Credit.....	0.0

All classes on a student's schedule, except those taken as an audit, are counted towards attempted credits. Only classes with grades of "D-" or above count toward completed credits. If a student repeats a course that was originally passed in order to improve a grade, the credits count toward attempted credits again but not toward completed credits. The ratio of completed to attempted credits is part of the determination of Satisfactory Academic Progress.

A student can compute their grade point average (GPA) by using the following example:

<u>Classes</u>	<u>Grade</u>	<u>Course Credit Hours</u>	X	<u>Grade Honor Points</u>	=	<u>Course Honor Points</u>
Rhetoric & Composition	A-	4		3.7		14.8
American Government	B	4		3.0		12.0
College Algebra	C+	4		2.3		9.2
Biology	C	4		2.0		8.0
TOTALS		16				44.0

Divide the total honor points (44) by the total semester hours attempted (16). In this example, the GPA would be 2.75. The grades of "F" is included in calculating the GPA. Grades of "I" through "TR" (see chart above) are recorded on the transcript but are not used for the calculation of the GPA. A student must earn a cumulative GPA of 2.00 or higher to receive a degree or a certificate. Cumulative GPA's are based on all grades earned throughout the student's academic career.

Credits and grades for Transitional Studies courses are calculated into the term GPA but not the cumulative GPA nor applied toward completion of a degree or certificate. However, those courses may be required to fulfill prerequisites for required courses.

### Grade Reports

Grades are posted by Wednesday after the semester ends. Students may review their grades on their unofficial transcript on myBay. Bay College does not issue printed Grade Reports.

### Pass/Fail Grades

The Pass/Fail grade is used only in nursing clinics and physical education courses. "P" grades are not used to calculate the student's GPA; however, "F" grades are used to calculate the GPA.

### Incomplete Grades

If a student is not able to complete course requirements within the established timeframe, the student may request an Incomplete grade ("I") from the instructor. An "I" may be given only if:

1. The student has completed at least 80% of the required class work, but is unable to complete the remaining class work and/or take the final examination because of extenuating circumstances such as major health issues, family crisis, etc.
2. The student has done satisfactory work in the class. (Students who are failing cannot request an "I" in order to redo completed class work.)

3. The instructor determines that the student can complete the required work without repeating the course.

If these conditions are met, the instructor must:

1. Submit an *Incomplete Grade Form*. This form indicates actions the students will undertake to finish the required class work and the deadline for completing the work.
2. Keep one copy, give one copy to the student, and submit a copy to the Records Office.
3. Monitor student progress toward completion of class work.
4. Submit a *Change of Grade Form* to the Records Office upon completion of work and recalculation of the course grade.

Students should not re-register for the course while finishing requirements for an "I" grade.

Instructors and students must set a reasonable time frame for completing class work and submitting a new grade. A Change of Grade is due to the Records Office according to these deadlines. If no change of grade is submitted, the "I" grade becomes an "F."

<u>Term</u>	<u>Deadline</u>
Fall .....	May 1
Winter .....	December 1
Summer 1 & Summer 2.....	December 1

The instructor may request an extension of the deadline from the Registrar.

## Change of Grade

If it is determined that there was an error in calculating a grade or an incorrect grade was assigned, a student may initiate the Change of Grade process by contacting the instructor. If verified, the instructor will submit a Change of Grade form to the Records Office. All requests for a change of grade must be made within three months of the posting of the final grade on the transcript.

The change of grade will be made to the transcript and the GPA will be recalculated.

However, if the student believes that there was inaccuracy in evaluating the quality of work, and, therefore, an unacceptable grade was assigned, the student should follow the Academic Appeals Procedure.

## Academic Forgiveness

Occasionally a student has failing grades that adversely affect their GPA, but those grades are in courses they do not need to complete a degree or certificate. If a student has failing grades in courses not needed for their degree or certificate, they may request that up to 12 credit hours of "F" be removed from the calculation of their GPA. The original grade remains on the transcript but a notation is made that the "F" has been removed from the calculation of the term and cumulative GPAs.

The following regulations apply:

1. The student must be currently enrolled.
2. The student must submit a request for Academic Forgiveness to the Registrar. Only Bay College courses may be adjusted. The form is available in Student Services at both campuses or online at myBay > Current Students > Forms, Docs, & Policies > Request for Academic Forgiveness.
3. The request will not be processed unless the student has successfully completed at least 12 credits beyond the last semester for which the student is seeking academic forgiveness.
4. The Registrar will respond, indicating whether academic forgiveness was granted.
5. Upon granting of the academic forgiveness, the student's transcript will be adjusted.
6. All actions taken to remove credits and grades from the calculation of the GPA are final.

Students should consider that other colleges and universities may not honor this procedure.

## Academic Appeals Procedure

Any matter of evaluation of student work, including the assignment of final course grades, merits the establishment of procedures for reconciliation of possible errors or disagreements. If a student believes that an instructor has awarded an inaccurate final grade, the student should follow this procedure within three months after the release of final grades:

1. The student should contact the instructor and discuss the problem. If they can resolve the issue, no further action is needed. If the resolution changes the grade, the instructor must submit a *Change of Grade Form* to the Records Office.
2. If the student and instructor cannot resolve the problem, the student should contact the Dean who supervises the instructor.
  - a. The Dean will have a meeting with the student and confer with the instructor.

- b. Within two (2) weeks of this meeting, the Dean will make a decision and inform the student and instructor in writing. If the resolution changes the grade, the instructor must submit a *Change of Grade Form* to the Records Office. If the student or instructor disagrees with this decision, an appeal can be made before the Academic Appeals Committee.
3. The student or instructor can appeal to the Academic Appeals Committee.
- a. Within ten (10) days after receiving the decision from the Dean, the student or instructor must submit the complaint in writing to the Academic Affairs Office.
  - b. The Academic Affairs Office will call a hearing to be held before the Academic Appeals Committee within 21 days of receipt of the complaint. The committee shall include the Academic Affairs, two student representatives, and two faculty members appointed by the Faculty Association president.
    - i. If the student members are not appointed within ten (10) days, the Student Services leadership shall appoint the student members. If an appointment made either by the Faculty Association president, or the Student Services leadership represents a possible conflict of interest, the Academic Affairs Office may request an alternate be appointed.
    - ii. The Academic Affairs Office will chair the committee and vote in the case of a tie.
  - c. The hearing shall be governed by the following rules of procedure:
    - i. Both parties shall have the right to defense by an advisor of their choice, the right to hear and examine adverse witnesses and the right to testify and present evidence and witnesses on their own behalf.
    - ii. Both parties shall be given an opportunity of settlement before the committee deliberates and renders a decision.
    - iii. The committee will then deliberate and make a decision.
  - d. Within ten (10) days of the conclusion of the hearing, the Academic Affairs Office shall implement the recommendations of the Academic Appeals Committee and inform both parties in writing. The decision will be final. If the resolution changes the grade, the instructor must submit a *Change of Grade Form* to the Records Office.

## Academic Honors

Bay College seeks to award students for their academic achievements with the following honors awards.

**Dean's List:** Honors are awarded at the end of the Fall and Winter semesters to students who earn at least 12 credit hours (excluding Transitional Studies courses, "P" grades, or "I" grades) and achieve a 3.5 or better GPA. Students who earn honors will receive a notification letter, their names will be part of the Dean's List which is printed in local newspapers, and a notation will be added to the appropriate term on their transcript.

**Graduate with Honors:** Students who graduate with a 3.5 cumulative GPA will graduate with honors. A notation is made in the commencement program, on the transcript, and their names will be printed in the local newspaper. It will also be indicated on their diploma or certificate.

**Phi Theta Kappa:** Students who are members in good standing of Phi Theta Kappa at the time of graduation will receive a notation on their diploma or certificate and on their transcript.

**Honors Program:** Students may also apply for acceptance into the academic Honors Program which enables students to enroll in Honors courses, and apply for Honors Program scholarships. Honors course designations will appear on student transcripts. Honors Program scholars will have opportunities to attend numerous lectures, films, and other campus events, complete service learning projects, and attend regional or national conferences. Students may complete any number of Honors courses; however, students who complete the specified Honors Program requirements will receive additional recognition at Commencement. Honors Program graduates will have a notation added to their transcript.

## ACADEMIC STANDARDS

### Attendance

Students are expected to attend all sessions of each class in which they are enrolled. Failure to do so may result in academic penalty. Absence in no way relieves the student of the responsibility for completing all work in the class to the satisfaction of the instructor. Students should carefully review attendance policies in their syllabi.

### Course Load and Employment

Often there is a conflict between the number of hours that students are employed and the maintenance of satisfactory course grades. Carrying an average load of 12 to 17 semester hours will involve a full-time effort involving about 50 hours of class and study time each week. Students who are employed should recognize that adjustments may be necessary in their class load. For guidance, the following recommendation is presented in terms of class loads and employment hours.

Class Load (Credit hours)
15-16
12
9
7

Employment (Hours per Week)
15 or less
24 or less
32 or less
40 or less

## Credit Hour Limit

The maximum number of credits students may take at one time is limited in order to assist their academic success. The limits are:

Fall .....	19 credit hours
Winter .....	19 credit hours
Summer 1 or Summer 2 .....	8 credit hours
Summer 1 and Summer 2 combined.....	12 credit hours

A student may petition the Registrar for an overload. A form is available in Student Services at both campuses or on myBay.

## Standards of Academic Progress

It is the policy of Bay College that students must make satisfactory academic progress toward completion of their degree or certificate. A 2.0 grade point average is required for graduation. Students are considered to be making satisfactory academic progress if, after completing at least 12 credit hours at Bay College, they maintain a cumulative grade point average (GPA) of 2.0 or higher.

Those students whose academic progress is declared unsatisfactory will be subject to academic probation or dismissal as outlined in these procedures. These Standards of Academic Progress are a minimum requirement for all students. Degrees or certificates may adopt more stringent standards for academic progress.

### Standards of Academic Progress Procedures

1. All Bay College students' academic progress will be reviewed at the end of each Fall and Winter semester. In addition, students receiving Financial Aid awards from Bay College will be subject to the federally regulated Satisfactory Academic Progress guidelines monitored by the Financial Aid Office.
2. Student progress which fails to meet the Standards of Academic Progress will be declared Unsatisfactory and subject to the following action:
  - I. **Academic Warning**
    - A. The first time a student's cumulative GPA falls below 2.0, they will receive notification that it is necessary to take intervention to improve their grades.
    - B. A notation will be placed on their transcript and a warning will appear in myBay when the student registers for classes.
    - C. Students are encouraged to work with their academic advisor or someone in Academic Support to plan for improved performance.
  - II. **Academic Probation**
    - A. A student will be placed on academic probation if they fail to meet satisfactory academic progress for a third consecutive semester. They will receive notification of their status, a notation will be placed on their transcript, and a warning will appear in myBay when the student registers for classes. Students are encouraged to work with their academic advisor or someone in Academic Support to plan for improved performance.
    - B. A student is removed from academic probation once the cumulative GPA rises above 2.0.
    - C. A student will continue on probation if their cumulative GPA remains below 2.0. A student placed on probation status has two semesters to raise the cumulative GPA to 2.0 or higher. If the minimum cumulative GPA is not met at the end of two semesters on probation, the student is subject to academic dismissal.
  - III. **Academic Dismissal**
    - A. A student on academic probation for two semesters who fails to raise the cumulative GPA to at least 2.0 will be subject to dismissal. The student will be notified of their options.
      1. COUNSELING – The student will meet with an advisor to establish an academic support plan. Plans may include but are not limited to: restrictions in the number of credit hours allowed, required tutoring, and/or meetings with the advisor throughout the semester, repeating courses, or career exploration.
      2. DISMISSAL – The student is not allowed to enroll for classes at Bay College for one semester.
    - B. Students selecting COUNSELING must follow the Academic Support Plan as written. If the student fails to satisfy the agreement, academic dismissal will result and the student must meet with a designated college advisor before re-entry will be considered.
    - C. Students selecting DISMISSAL may be allowed to re-enroll at Bay College after a minimum of one semester of non-enrollment. The student must contact the Executive Dean of Student Services for reinstatement. Students who are reinstated will be placed on academic probation.

Students who have been placed on academic probation or dismissal have the right to appeal their status if there are extenuating circumstances for not meeting the standards for academic progress. The appeal must be submitted in writing to the Executive Dean of Student Services within 15 days of receipt of notification of probation/suspension status. The Executive Dean of Student Services will conduct a meeting of the Academic Suspension Appeals Committee to review the appeal. The committee will be comprised of the Executive Dean of Student Services, two faculty members, one student, the Registrar, and the Director of Academic Support. The student will be informed of the committee's decision, which is final.

## **TRANSFER CREDITS**

### **Transferring Credit from Bay College to Other Institutions**

Students may send Bay College transcripts to other institutions and request transfer of credits to that school. No educational institution is obligated to accept Bay College credits. Students must follow transfer guidelines as established by other institutions.

Guidelines for Guest Applications within the Michigan system of schools are found in Admissions.

### **Transferring Credit from Other Institutions to Bay College**

A student may request that credits earned at another institution be transferred to the Admissions Office at Bay College. The student must submit an official transcript to Bay College which will be evaluated to determine which credits will transfer and which course requirements are fulfilled by those credits. Only courses with a grade of "C" or higher will be considered for transfer. Only credits earned at accredited institutions of higher learning (i.e., recognized by CHEA and the U.S. Department of Education) will be considered for transfer.

No credits will be transferred unless the student is officially enrolled at Bay College. Evaluated credits will be applied to the student's Bay College transcript, but no Bay College transcript will be sent to another college unless the student completes credits at Bay College.

Credits transfer, grades do not. Therefore, no transfer grades are recorded or calculated into the GPA. If a course has no equivalent at Bay, it may be used as an elective.

### **Transferring Credit from International Institutions to Bay College**

Students who attend colleges outside of the United States or Canada must have their transcripts evaluated course-by-course by one of the following sources and request a copy of the evaluation be sent to the Admissions Office as part of their application process. The student is responsible to pay any fee incurred.

AACRAO International Education Services – <http://www.aacrao.org/credential/index.htm>

World Education Services (WES) – <http://www.wes.org/>

ECE International – <http://www.eceinternational.com/education-evaluation.html>

International students who have not attended an institution of higher learning must have their high school diploma/certificate verified by one of the agencies listed above. Direct any questions about the transcript evaluation to the Registrar's Office.

### **Course Equivalencies**

For course-by-course equivalencies within Michigan colleges or universities, the MACRAO website at [www.macrao.org](http://www.macrao.org) hosts the Michigan Transfer Network (MTN) which provides quick and easy data on how your Bay course(s) will transfer within Michigan institutions. In addition, this website provides course equivalencies and transfer guides by clicking on "Michigan College Home Pages", and selecting "Transfer Equivalencies" on the college or university posting. For students transferring out of state, please contact your transfer institution to ensure that your Bay course(s) will transfer.

### **Advanced Placement Program**

College course credit will be granted to students who participate in the Advanced Placement (AP) Program at their area high school and pass the Advanced Placement examinations with an appropriate score. Only those AP courses approved by Bay College faculty will transfer in as Bay College credit. Advanced Placement exam scores must be sent directly to the Registrar to be evaluated for transfer credit.

<b><u>AP Exam</u></b>	<b><u>Required Score</u></b>	<b><u>Credit Awarded</u></b>	<b><u>Bay College Course Equivalent</u></b>
Biology	3	8	BIOL-110 Evolution & Diversity –AND- BIOL-112 Cells & Molecules
Calculus AB	4	5	MATH-141 Analytical Geometry & Calculus I
Calculus BC	4	5	MATH-142 Analytical Geometry & Calculus II
Chemistry	3	10	CHEM-110 General Chemistry I &

English Language & Composition	3	3	CHEM-112 General Chemistry II
English Literature & Composition	3	3	ENGL-101 Rhetoric & Composition
Government & Politics (US)	3	3	ENGL-101 Rhetoric & Composition
Macroeconomics	3	3	POLI-111 American Government
Microeconomics	3	3	ECON-131 Macroeconomics
Physics B	4	8	ECON-132 Microeconomics
Physics C (Mechanics)	4	5	PHYS-201 Elements of Physics I & PHYS-202 Elements of Physics II
Physics C (Electricity & Magnetism)	4	5	PHYS-205 Engineering Physics I
Psychology	3	3	PHYS-206 Engineering Physics II
Statistics	3	4	PSYC-201 Introduction to Psychology
U.S. History	3	3	MATH-210 Introduction to Statistics
Comp Sci A	5	3	HIST-211 U.S. History to 1865
			CSCI 121 C++ Programming I

## College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) is administered by the College Board. CLEP enables those who have reached the college level of education to assess the level of their academic achievement and to use the test results for college credit. Students must have official CLEP transcripts sent directly to Bay College for consideration of transfer. Bay College's CLEP ID# is 1049.

Students planning to transfer to a university should consult that institution's CLEP policies before taking CLEP tests. Some institutions, such as medical schools, do not accept CLEP credits for some subjects, such as biology and chemistry.

Students may not earn credit for CLEP subject examinations if the student has already earned credit in the course, was previously or currently enrolled in the course, or has credit in a higher level course in that subject. CLEP credit will not count toward the minimum 17 credits required to be taken at Bay College for degrees and certificates. CLEP credits receive no grades and are not calculated in the student's GPA. Only the courses listed below will be considered for transfer and only if the final score is 50 or higher.

Test	Bay Courses	Credits Awarded
Business		
Financial Accounting	ACCT-101 & ACCT-102	8
Information Systems & Computer Applications.	CIS-101	4
Principles of Macroeconomics	ECON-131	3
Principles of Management	BUSN-242	3
Principles of Marketing	BUSN-253	3
Principles of Microeconomics	ECON-132	3
English		
College Composition	ENGL-101	3
Foreign Language		
French Language 1 & 2	FREN-111 & FREN-112	6
German Language 1 & 2	GRMN-101 & GRMN-102	6
Spanish Language 1 & 2	SPAN-101 & SPAN-102	6
Math		
Calculus	MATH-141	5
College Algebra	MATH-110	4
Pre-Calculus	MATH-111	3
Science		
Biology	BIOL-110 & BIOL-112	8
Chemistry	CHEM-110 & CHEM-112	10
Social and Behavioral Science		
American Government	POLI-111	3
United States History to 1865	HIST-211	3
United States History from 1865	HIST-212	3
Introduction to Psychology	PSYC-201	3
Introduction Sociology	SOCY-151	3
Western Civilization I	HIST-101	3
Western Civilization II	HIST-102	3

## Military Training Credit

All veterans having a certified DD Form 214 on file in the Admissions Office will automatically be given credit for two semester hours of physical education. Veterans who feel that other training received in the military is applicable to their program of study

may request that such training be evaluated for credit. The veteran must produce proper documentation that will be evaluated by the Registrar based on the American Council on Education (ACE) credit recommendations. For more information, visit their web site at [www.acenet.edu](http://www.acenet.edu). Veterans planning to transfer from Bay College to another institution should be aware that the institution may not accept the credit for military training given by Bay College, but will usually wish to re-evaluate the training documentation.

## **CREDIT BY EXAMINATION**

Credit by departmental examination is available for a select number of courses for currently admitted students whose experiences have provided them with advanced levels of skill, usually in the vocational or technical areas. Upon passing the exam with a grade of "C" or better, the grade will be posted to the student's transcript. Department examination is not intended for students who are currently enrolled in the course, have dropped the class, have transfer credit for the course, or have a previous grade for the course. Departmental credit by examination is not intended to replace independent study and may not be suitable for students planning to transfer to a college or university.

Students are not permitted to take an examination in any course where credit has already been earned in a more advanced course. Students seeking credit by examination should consult with the appropriate faculty. See the Registrar for information on fees and to begin the process of requesting credits by examination.

## **GRADUATION**

### **Degree Completion**

Students must meet the following requirements in order to be considered for graduation:

1. Complete all degree or certificate requirements as presented in their Catalog of Record. (The Catalog of Record is the current college catalog at the time the student first takes classes at Bay College or declares a change of major.)
2. Attain a cumulative GPA of 2.00 or higher.
3. Complete the residency requirement of a minimum of 17 credit hours at Bay College for any degree or 16 credits for a certificate.
4. Students who wish to complete a second degree must complete 15 additional credit hours beyond the first degree requirements as well as the degree requirements for the second degree.
5. Students who have completed a degree and wish to complete a certificate need only complete the remaining course requirements for the certificate.
6. Students who wish to complete more than one major may declare an additional major. They must meet all requirements for the majors and must accumulate credit hours to comply with item 4 above. See the Registrar for more clarification.

### **Application for Graduation**

One semester before students anticipate degree completion, they should complete an Application for Graduation. An official degree audit of the student's transcript, including all completed and in-progress courses, will be performed. Students will be informed in writing if all requirements have been met for graduation or if there are additional courses that must be completed. If the student changes their registration after the audit is completed, they need to contact the Registrar for a re-evaluation of the audit. Applications are available in Student Services at both campuses and on myBay. No degree or certificate will be awarded without an Application for Graduation on file.

Applications must be submitted by March 1. There is no guarantee that applications received after March 1 will be processed in time for the student to be included in Commencement. Degrees are conferred at the end of Fall, Winter, Summer 1, and Summer 2 terms. Applications submitted more than two weeks after the end of a term may be considered for the next conferral date.

### **Course Substitution**

Occasionally the student will have difficulty completing all required courses due to circumstances beyond their control. If the student's academic advisor or one of their instructors deems it necessary to substitute a course, the student's advisor must complete the Course Substitution form and submit it to the Dean for approval. The signed authorization is then submitted to the Registrar for approval and application to the final degree audit.

### **Reverse Transfer of Credit for Degree Completion**

Students leaving Bay College prior to earning a degree or certificate may transfer credit back to Bay College from another college or university to fulfill degree or certificate requirements. Courses/credits which will apply for reverse transfer credit should be approved by the Registrar prior to a student leaving Bay College.

Students who elect to reverse transfer credits must complete the following:

1. Before leaving Bay College complete an Application for Graduation Form. Submit the form to the Registrar for an official degree audit to be performed. When the audit is completed, a letter will be sent to the student indicating the requirements they must meet to earn their degree or certificate from Bay College. They should indicate on the application their intent to apply reverse transfer.
2. Students should contact the Registrar or Director of Transfer and Student Advising for an appointment to determine what courses are considered equivalent for fulfilling the remaining requirements. Students must complete all program requirements including the number of credits necessary for the degree.
3. From the Transfer Institution: After successfully completing the determined course(s) with a C or higher, the student must request an official transcript be sent to the Admissions Office at Bay College. It is the responsibility of the student to inform the Registrar or the Director of Transfer and Advising at Bay College that a transcript has been sent for the purpose of fulfilling their program requirements.
4. Bay College will notify the student when degree requirements have been met. The degree will be conferred and a diploma or certificate sent to the student.

## **Commencement and Diplomas**

Commencement ceremonies are held once each year on Saturday at the end of the Winter semester in May. Participation in the Commencement Ceremony is strongly encouraged but not required. Student Services will issue information and instructions regarding commencement activities. Students who wish to participate in the Commencement Ceremony must submit their application for graduation no later than March 1.

Diplomas and certificates are prepared and mailed to graduates after the completion of all degree or certificate requirements are verified. Diplomas and certificates will be mailed to the address on file.

## **Degree Verifications**

The National Student Clearinghouse is our authorized agent for providing degree verifications. Please contact them at [www.studentclearinghouse.org](http://www.studentclearinghouse.org), or by phone, 703-742-4200. Faxed requests will also be accepted at 703-742-4239.

## **TRANSCRIPTS**

Transcripts are official documents that indicate all courses for which the student has completed and all grades earned. Occasionally other information is also posted, such as degrees awarded, honors earned, etc. A student may print an unofficial copy of their transcript on myBay. A student who wants an official or unofficial transcript sent to a designated recipient must make a written request or complete a transcript request form. Forms are available in Student Services at both campuses or on myBay. Written transcript requests can be mailed, faxed to 906-789-6953, or e-mailed as an attachment to [transcriptrequest@baycollege.edu](mailto:transcriptrequest@baycollege.edu). Requests must include the student's current name, any previous name, the student's Bay ID# (if known), the name and address where the transcript should be sent, and the student's signature. Students may request that transcripts be held and issued after grades are posted for the current term and/or until degrees are posted. Transcript requests are usually processed within three business days.

Transcripts will not be issued to students who have not met all financial obligations to Bay College. The Registrar reserves the right to limit requests for multiple copies to a reasonable number.

## **STUDENT RECORDS**

Every effort is taken to maintain the accuracy and confidentiality of student records. The Registrar has oversight of every student's permanent academic record.

## **FERPA**

Bay College is in compliance with the provisions of the Family Educational Rights and Privacy Act (FERPA) which provides that institutions maintain the confidentiality of students' educational records. Students have the right to examine and review information contained in their educational records and to challenge the content through the formal and informal guidelines established. Bay College has adopted a policy which explains in detail the procedures followed for compliance with provisions of the Act.

Students may request to see their educational records being held by the College and petition the Registrar to have records corrected if they believe the record to be inaccurate, misleading, or in violation of their privacy rights.

To maintain the privacy of student educational records, Bay College releases to school officials only that information that is needed for College personnel to perform their duties and assist students. Bay College also uses student educational records to file required reports with government agencies. Occasionally this requires using student social security numbers and wage record information for the WIA (Workforce Investment Act) and the Carl D. Perkins & Technical Education Act. Great care is taken to preserve the integrity of these records and to use only the minimum required information. Students have the right to refuse to permit the inclusion of their SSN in these specific reports. More details are available from the Registrar's Office.

## **Directory Information**

FERPA allows disclosure of directory information to appropriate persons. Such information is disclosed with caution and in a manner that protects our students. Directory information is information that is not generally considered harmful or an invasion of privacy if disclosed. The following information is considered directory information and may be disclosed upon request and without prior consent of the student in question:

- Name
- Address
- E-mail address
- Telephone listing (campus, home, emergency, and cell)
- Date and place of birth
- Candid photos from around campus
- Official photos for ID cards
- Major
- Participation in officially recognized activities
- Enrollment status (full-time, part-time, classification) and Course Load
- Dates of attendance and graduation
- Degrees and awards received
- Most recent previous school attended (for transfer students)
- Sports photographs
- Position, weight, and height of athletes

Directory information does not include student identification numbers, social security numbers, or any other personally identifiable information.

Students may prohibit disclosure of directory information by filling out the Non-Disclosure Form which is available in the Registrar's Office. Questions concerning general disclosure of information should be addressed to the Registrar. Students may designate individuals who they want to have access to the information in their educational records by completing the appropriate form in the Records Office.

The U.S. federal government reserves the right to disclose student's personally identifiable information (PII) to third parties who are contracted to evaluate a federal- or state-supported education program, or who are doing research.

If a student believes their educational record is in error or that their rights have been violated, they may petition the Registrar to correct the records. Students may also file a complaint with the U.S. Department of Education by writing to:

- Family Policy Compliance Office
- U.S. Department of Education
- 400 Maryland Avenue, S.W.
- Washington, D.C. 20202-5901

## **RETENTION AND GRADUATION RATES**

In compliance with the Student Right to Know Act, Bay College tracks retention and graduation rates. This information is available on the Bay College website at [www.baycollege.edu](http://www.baycollege.edu) or by contacting the Registrar's Office.

# Online Learning

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Welcome to online learning at Bay College! Online courses are a great way for you to work towards a degree, anywhere, anytime. Most students enjoy the convenience of online courses. The online course environment allows you to work on your classes from the comfort of your home, at work, or on the go. Our online courses are taught by experienced instructors, certified to teach online.

Bay College students can complete 100% of their Associate of Arts, Associate of Applied Science-Business and Business Administration degrees completely online and 75% of required courses for the Associate of Science (AS) degree online. We also offer an Accounting certificate completely online. In some courses, students take the lectures online and proctored exams online (web recorded) or come to campus to take the exams in a secure environment. A variety of delivery modes and technical approaches offered at Bay College develop students' critical thinking skills and their flexibility in engaging in a wide range of communication modes.

Student Services staff and Academic Advisors at Bay College can help you determine if the program in which you are interested is already fully online, if that program is scheduled to be fully online in the near future, or how many classes in that program are currently available online.

## Mandatory Online Learning Orientation

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In order to better prepare you for online learning courses, all new online learning students will be required to complete an orientation course in Blackboard online. If you have successfully completed a completely online course at Bay College in the last three years, you are not required to complete the orientation. This course will take approximately 1.5 hours to complete and must be completed in order for you to have access to your online courses. As soon as you register as a new online student you will automatically be enrolled in the Online Learning Orientation course in Blackboard. You can complete this course at any time, after you register, and it should be completed far in advance of the beginning of the semester. After you complete this course, it will take 24 hours to log your completion status and give you access to your online courses.



Bay de Noc Community College is committed to implement the Quality Matters™ standards for the design of online and hybrid courses, and we are systematically building and evaluating our courses based on these rigorous, research-based standards. The Quality Matters™ standards assure that the online components of these courses promote learner engagement and provide students with all the tools and information they need to be successful learners. More information regarding Quality Matters™ may be found at [www.qmprogram.org](http://www.qmprogram.org).

## What exactly is an online course?

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### **Online Course Definition:**

Course content is delivered 100% online; however, **some** courses may require students to take tests in a **\*proctored** web-recorded or classroom or computer lab setting.

\* **Proctored Exams for online courses:** You will be required to use Respondus Monitor (web-recorded) for proctored exams or go to the testing center at the Escanaba or West campus or an alternate proctored location. Please contact your instructor if you need assistance locating an approved location. There may be a cost associated with the proctoring, which is your responsibility.

### **Hybrid Course Definition:**

A portion of the course is face-to-face. The remainder is taught online.

### **Traditional Course Definition:**

The traditional course is where the instructor meets face-to-face with the student for all contact hours of the course. However, the student in a traditional course may be required to use the Internet to access online assignments, virtual tours, course documents, learning artifacts, assignment directions, instructor notices/communications and assessments.

## Online Learning Student Support Structure

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### **Online Tutoring**

Please e-mail [onlinehelp@baycollege.edu](mailto:onlinehelp@baycollege.edu) or call (906) 217-4276 to get support with all your online learning needs. This is a system that connects all the online learning employees at once to help you.

Eddie Erickson is an instructional designer and can help you with online learning issues. She works directly with students and faculty to troubleshoot technical issues related to Blackboard and MyBay. Eddie can be contacted by phone at (906) 217-4266, or by e-mail at [edie.erickson@baycollege.edu](mailto:edie.erickson@baycollege.edu). Eddie's office is #846 in the HUB.

Joseph Mold is the Director of Online Learning and Instructional Design at Bay College and can also be contacted for support. Joseph can be contacted by phone at 906-217-4246, or by email at [moldj@baycollege.edu](mailto:moldj@baycollege.edu). Joseph's office is #844 in the HUB.

### **Technical Support**

For help with any of your online learning needs please contact Online Help.

#### **Online Help**

email: [onlinehelp@baycollege.edu](mailto:onlinehelp@baycollege.edu)

Phone: (906) 217-4276

#### **Eddie Erickson**

Instructional Designer

email: [edie.erickson@baycollege.edu](mailto:edie.erickson@baycollege.edu)

Phone: (906) 217-4255

#### **Joseph Mold**

Director of Online Learning and Instructional Design

email: [moldj@baycollege.edu](mailto:moldj@baycollege.edu)

Phone: (906) 217-4246

# Services for Students

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## **INTRODUCTION**

Bay College attracts a student body with vast differences in age, abilities, and social backgrounds. As a result of this setting, the successful instructional program must be complemented by learning resources, developmental courses, student counseling and advisement, career services, financial assistance, and extra-curricular activities. Students, in addition to learning academic or vocational skills, need to learn to relate to and communicate with other people and to make intelligent choices in a society marked by complexity, change, and constant decisions.

Our central goal at Bay College is to keep the student as the heart of the educational system. All programs, services, and facilities exist because of students. Learning is a vital process, and the goal of this college is to create an environment which will facilitate learning.

Bay College provides a variety of resources and services to assist students in taking full advantage of the total learning process.

## **ACADEMIC ADVISING, CAREER SERVICES AND PERSONAL COUNSELING**

**ACADEMIC ADVISING:** Faculty advisors and Student Services staff will help students to schedule classes each semester and provide information concerning transferring to other colleges and universities. They are also available to discuss academic program requirements at Bay, as well as the many transfer programs.

**CAREER SERVICES:** Bay College provides a variety of services to assist students in finding meaningful, career-related employment. Services provided include assistance with cover letters, résumés, and portfolio building. Occupational information, self-assessment inventories, career exploration, and decision making assistance are available to students. Job postings from local, regional, and national employers are posted on the Bay College website. Career and job fairs are also posted throughout the year at this link.

**PERSONAL COUNSELING:** Personal counseling is also available to students. A licensed counselor is available on a limited basis to work with students on a variety of concerns. All services are provided on a confidential basis.

## **STUDENT SUCCESS CENTER**

The Student Success Center (SSC) is home to the Bay College Academic Support Department working within multiple programs to provide diverse and robust support services to students. The SSC houses the TRIO program, the Office of Accessibility, the Supplemental Instruction Program, academic success coaching, tutoring, study groups, and placement preparation. In addition to these formal support services, the SSC provides study tools, resources, and many study areas for use on an as-needed basis, in addition to several amenities in the SSC student hospitality room. Students should stop by the SSC reception desk for help with any of these services. The Student Success Center exists at both campuses.

What students can find in the SSC in Escanaba:

- Study area options for individual or group study
- Lecture capture room
- Computers
- Printers
- Reference and study materials for all subjects
- Calculators, headphones, and other tools to check out
- Social areas
- Hospitality room with kitchenette
- Coffee, tea, and snacks

The center is located in the HUB building, rooms 800 – 841.  
Staffed Hours: Monday – Thursday, 8am – 5pm; Friday, 8am – 3pm

For more information, call 906-217-4230 or visit our web site at <http://www.baycollege.edu> and click “Academics” > “Academic Support.”

## **SUPPLEMENTAL INSTRUCTION**

Supplemental Instruction (SI) is an internationally recognized academic support program that targets traditionally difficult courses. In SI, students come together in regularly scheduled study sessions to compare notes, discuss course materials, develop creative study tools, practice problem solving, and prepare for exams. These sessions are facilitated by trained SI Leaders that attend the course sessions and prepare study materials for use during sessions. The SI program is housed in the Student Success Center, rooms HUB 828 – 833.

For more information, call 906-217-4175 or visit [www.baycollege.edu](http://www.baycollege.edu) and click “Academics” > “Academic Support” > “Supplemental Instruction.”

## **TRIO PROGRAM**

The TRiO Student Support Services program provides the following services to students: tutoring in math, writing, general education courses, reading comprehension, and study skills; mentoring; career exploration, portfolios and resumes; academic planning; workshops; grant-aid; TRiO Club and social opportunities; and a First-Year College Experience (FYE) program. The program is designed to assist students who are either first-generation (neither parent has a four-year degree), and/or of limited income, and/or physically or learning disabled. However, tutoring in any subject is available to all students. Interested students should ask about this program during the admission process or come into the TRiO HUB Office 815 anytime to schedule an appointment to learn more about our services.

## **OFFICE OF ACCESSIBILITY**

The Office of Accessibility (OOA) is the first stop for information and assistance to support students with disabilities. The office is located in HUB 811 on the Escanaba campus and provides services to all Bay students anywhere they are taking classes.

### **STUDENTS WITH DISABILITIES**

It is the policy of Bay de Noc Community College Board of Trustees to comply with the Americans with Disabilities Act (ADA) of 1990 and Section 504 of the Rehabilitation Act of 1973 as amended, as well as other applicable federal and state laws and regulations that promote full participation of individuals with disabilities. No otherwise qualified individual with a disability, including students, employees, and other program participants, shall be excluded from or denied access to participation in, or the benefits of, any program, activity, employment or service offered by the College, or otherwise subjected to discrimination, by reason of disability.

### **Definitions**

- **Disabled**: means having a physical or mental impairment which substantially limits one or more of a person's major life activities; a record of such an impairment; or being regarded as having such an impairment.
- **Functional limitation**: means the functions or acts a person cannot do, resulting from a physical or mental impairment which substantially limits a major life activity.
- **Fundamental alteration**: means a significant modification that alters the essential nature of the services, programs, activities, facilities, privileges, advantages or courses offered.
- **Grievance**: means a complaint alleging a violation of any policy, procedure or practice prohibited by the Americans with Disabilities Act, Rehabilitation Act of 1973, or Bay College's Disability and Discrimination Policies, as well as other applicable federal and state laws and regulations.
- **Major life activities**: means functions such as caring for oneself, performing manual tasks, seeing, hearing, eating, sleeping, walking, standing, sitting, reaching, lifting, bending, speaking, breathing, mental and emotional processes, learning, reading, concentrating, thinking, communicating, interacting with others, and working.
- **Modifications**: means modification or changes to the course, program or educational requirements as are necessary and appropriate, so that such requirements do not discriminate or have the effect of discriminating on the basis of disability. Academic requirements that are essential to the course, or to the program of instruction being pursued by the student, or which relate directly to licensing requirements will not be regarded as discriminatory within the meaning of this section. Potential modifications that may be considered include, but are not limited to, changes in the length of time permitted for completion of a degree, substitutions of specific courses required for the completion of degree requirements, extended time on an examination or paper, and other appropriate accommodations which do not unduly burden or fundamentally alter the essential nature of a course or instructional program.
- **Qualified student with documented disability**: means a disabled person who meets the standards required for admission and participation in the educational program or activity.
- **Undue burden**: means a significant difficulty, financial or administrative burden, or expense.

## Procedure for Requesting an Accommodation

Academic Accommodations will be provided to afford equal access for qualified students with documented disabilities in compliance with state and federal laws. For each student, these accommodations will address those functional limitations of the disability which adversely affect equal educational opportunity. It is the responsibility of the student to inform the College that they have a disability and that they are requesting an accommodation. Students must contact the Director of the Office of Accessibility (OOA) to request an accommodation.

Mr. Chris Fries  
Director, Office of Accessibility  
Student Success Center  
Escanaba Campus, HUB 811  
906-217-4017  
[ooa@baycollege.edu](mailto:ooa@baycollege.edu)

Students seeking an accommodation must also complete, and submit to the above individual, the online Request For Services form and provide appropriate documentation of the history and functional implications of the impairment. This form can be accessed from the College's website at <https://mybay.baycollege.edu> after the student logs into their myBay account or obtained from the Office of Accessibility. The diagnostic documentation submitted must adequately verify the nature and extent of the disability in accordance with current professional standards and techniques, and it must clearly substantiate the need for all of the student's specific accommodation requests. Appropriate documentation may include, but is not limited to, a letter from a qualified professional or evidence of a prior diagnosis, accommodation, or classification, such as eligibility for a special education program. If the original documentation is incomplete or inadequate to determine the extent of the disability or reasonable accommodation, the College has the discretion to require additional documentation. Any cost incurred in obtaining additional documentation when the original records are inadequate is borne by the student. It is not acceptable for such documentation to include a diagnosis or testing performed by a member of the student's family.

An academic accommodation is any reasonable modification or adjustment to the learning environment that makes it possible for a qualified student with a disability to enjoy an equal learning opportunity. The College is not required to make an accommodation that constitutes an undue hardship. The College is also not required to, and cannot, make accommodations which fundamentally alter the academic requirements for the degree, course requirements or basic pedagogy.

The College also does not guarantee success or bear responsibility for making students succeed in their courses. The College also does not pay for or provide items or services of a personal nature such as personal care assistance, personal purchases, personal medical equipment, private transportation, or educational supplies used by all students (pens, paper, computer supplies, etc.). These are the responsibility of the student.

If it is determined by the Director of the Office of Accessibility that a student may be denied a modification to an academic requirement (except as permitted by the Section 504 regulation at 34 C.F.R. § 104.44, for the reason that the requested modification would fundamentally alter the nature of the program at issue or lower or waive essential program requirements), then prior to refusing any requested academic adjustment on that basis, the Director of the OOA shall convene, and chair, a committee, which shall be known as the Student Accommodation Committee, which shall be comprised of persons knowledgeable about the student's disability, and about the program, such as faculty and department chairs. The Student Accommodation Committee shall engage in a careful, thoughtful deliberation of the program/course requirements at issue; whether such requirements are essential; the feasibility, cost, and effect on the program of the requested academic adjustments; and any available alternatives. The Student Accommodation Committee, only after engaging in the above deliberative process, will make a determination of whether the requested academic adjustment would fundamentally alter the program or lower essential academic standards. The Student Accommodation Committee's decision will be communicated to the student in writing. The student may request an alternative accommodation, which is subject to the review described above. The student may also appeal the Student Accommodation Committee's decision in accordance with the procedure outlines on the College's website.

## **LIBRARY**

The Bay College Library provides services that are designed to meet classroom-related and general information needs of students, faculty, staff and the community. The Library's primary goal is to provide resources that will enhance and expand an individual's learning experience. Materials in the Library include laptops, iPads, books, movies, audiobooks, CD's, periodicals and microforms. In addition to over 30,000 printed books including popular fiction and graphic novels, the Library also has over 30,000 eBooks, 20,000 streaming videos and several full-text periodical databases with access to millions of articles.

The Library's electronic resources are available for student use 24/7 with Internet access. Library patrons have access to a microfilm/fiche reader/printer, photocopy machine, printing, faxing, and DVD/VCR players. The Library's computer workstations

provide access to the Library's website and online catalog via the Bay College website at <http://www.baycollege.edu> by clicking the "Bay College Library" link under "MyBay" in the main menu.

You can visit the Bay College Library website at <http://library.baycollege.edu>. The Library's knowledgeable and friendly staff is always available to provide assistance in using the Library's materials and resources. Reference, inter-library loan, and library instructional services are available upon request. Special collections include Michigan history and Project Pioneer (An oral history of Delta County). All currently registered Bay College students (Including online, Manistique, and West Campus) may receive materials and services via phone (906-217-4055), Email [libraryhelp@baycollege.edu](mailto:libraryhelp@baycollege.edu), or delivery (call the library for details).

## **BOOKSTORE**

Bay College provides bookstore services for students, faculty and staff. The college bookstore is located in the Student Center on the Escanaba campus and is accessible from parking lot 'B'.

The college bookstore strives to keep costs down by maintaining an appropriate supply of used textbooks available for student purchase. Students may purchase textbooks, study aids, reference materials, educational supplies, backpacks and emblematic shirts and other Bay College clothing at the college bookstore. Textbooks may be purchased at the college bookstore in Escanaba or ordered online at [www.foollett.com](http://www.foollett.com). Books ordered online may be shipped or reserved for pick-up at either bookstore location. For more information, visit [www.foollett.com](http://www.foollett.com).

Students with financial aid in excess of tuition and fee charges may use this excess aid to purchase books.

Escanaba bookstore hours are Monday – Friday, 8:00 am - 4:30 pm EST. Store hours are extended during the book rush period (week before classes and first week of classes). Hours during this time at Escanaba are Monday - Friday from 7:30 a.m. to 6:00 p.m. EST and Saturday, 8:00 a.m. to 12:00 noon EST.

Contact the bookstore by:

	<u>Escanaba Campus</u>
Telephone:	906-217-4150
Fax:	906-789-6926
E-mail:	0993mgr@follett.com

## **CAFÉ BAY & CATERING**

Students, faculty and staff may purchase healthy meals and snacks at Cafe' Bay located in the Student Center building on the Escanaba Campus. The staff at Cafe' Bay keep up with current trends and serve the Bay College community in a friendly, welcoming manner.

Catering services are also available on campus. You can find Cafe' Bay's catering menu online on the Bay College website. Click Facilities/New & Events, then Escanaba Facilities to view the catering menu.

## **HOUSING**

Bay College has apartment facilities, at the Escanaba campus, for 100 students. The college apartments are located on the north end of the campus near the College Avenue entrance.

There are 21 four-person apartments and 8 two-person apartments. The four-person apartments are townhouses with two bedrooms and a bath upstairs, and kitchenette and living/dining area on the first floor. These apartments have a total of 814 square feet of living space. The two-person apartments have one bedroom, a bath, and a kitchenette/dining area. These apartments have 436 square feet of living space. Availability of two-person apartments is limited.

A housing deposit is required with your application. The housing office is located in Student Services.

### **Student Housing Accommodations**

Student Housing accommodations will be provided to afford equal access for qualified students with documented disabilities in compliance with state and federal laws, and consistent with Bay College's Assistance Animal Policy. It is the responsibility of the student to inform the College that they have a disability and that they are requesting a Student Housing accommodation. A student seeking a Student Housing accommodation must submit a written request for the accommodation along with diagnostic

documentation to the Director of Student Life at the same time the student submits housing application. Students may request additional accommodation by submitting a written request for the additional accommodation along with the additional diagnostic documentation to the Director of Student Life as soon as possible.

The request should be sent to:

Dave Laur, Director of Student Life  
Bay College, Room 512  
2001 N. Lincoln Rd.  
Escanaba, MI 49829  
906-217-4031  
dave.laur@baycollege.edu

The written request for a Student Housing accommodation should include:

- The student's name, student ID number, current address and telephone number;
- A description of the disability for which an accommodation is requested;
- An explanation of how the disability impacts the student's housing needs; and
- A written description of the accommodation requested.

The diagnostic documentation submitted must verify the nature and extent of the disability in accordance with current professional standards and techniques, and it must substantiate the need for all of the student's specific accommodation requests. All documentation must be submitted on the official letterhead of the professional describing the disability. The report should be dated and signed and include the name, title and professional credentials of the evaluator, including information about license or certification. If the original documentation is incomplete or inadequate to determine the extent of the disability or reasonable accommodation, additional documentation may be required. Any cost incurred in obtaining additional documentation when the original records are inadequate is borne by the student. If the documentation is complete but the College desires a second professional opinion, the College bears the latter cost. In general, it is not acceptable for such documentation to include a diagnosis or testing performed by a member of the student's family.

A request for Student Housing accommodations are made on a case-by-case basis. Prior to making a determination of whether to grant the accommodation, the Director of Student Life may consider all of the following: the relationship between the accommodation requested and the documented disability; the objectives of the Student Housing community in which the student is eligible to live; what accommodations would effectively facilitate the student's participation in the Student Housing program and community; and the extent to which the student's condition limit his or her opportunity to participate in other college activities. The Director of Student Life will consult with the student, and anyone else the Director believes may have information that assists with making a determination. The Director of Student Life shall inform the student in writing of the decision, as well as the information upon which the decision was based. Students who are not granted their requested accommodations through this process have the opportunity to appeal the decision. The appeals procedure is available on the College website.

## **BAY COLLEGE ATHLETICS**

Bay College provides opportunities for its students to participate in intercollegiate athletics. The Bay College Norse are members of the National Junior College Athletic Association (NJCAA) and participates in region XIII competition. Bay College sponsors Men's and Women's Cross Country and Men's and Women's Basketball. The athletic experience is a wonderful complement to students' academic experience. Bay supports students in their efforts to reach high levels of performance by providing them with first-class coaching, superior facilities, and appropriate competitive opportunities with students from within Region XIII of the NJCAA.

### **Eligibility**

All student athletes must be registered as a full-time student (12 credits or more) to maintain athletic eligibility. Student athletes should visit the Athletic Department for further clarification on transfer status, Grade Point Average, and other eligibility matters.

For more information, visit [www.baynorse.com](http://www.baynorse.com) or e-mail Director of Athletics, Matt Johnson, at [matt.c.johnson@baycollege.edu](mailto:matt.c.johnson@baycollege.edu).

## **STUDENT FINANCIAL ACCOUNTS OFFICE**

Student Accounts accepts payment for tuition, fees and housing, as well as sells tickets for events held in the Besse Center Theater. Student Accounts will cash a student's personal check up to \$20. The Student Accounts Office and the Box Office are located in the Besse Center.

## **STUDENT COMPUTING SERVICES**

Computers are available for use throughout the HUB (800) building, including in the Library, during operational hours. Technology Classrooms are located in the Joseph Heirman University Center 908 area. Students and faculty are provided access to an eight-room, centralized environment which houses over 150 computer work stations in classroom environments.

Testing Services is available by checking in at the HUB 876. Testing Services consists of 27 Computers. Proctoring services are available for Course/Makeup Tests, Placement Tests, Computerized and Paper Based Testing, Bay College campuses and other distance learning institutions; also for certification testing. A Picture ID (Bay College ID or driver's license, other government issued ids) is needed to use Testing Services.

Bay College West Student Computing Center (SCC) houses 25 workstations for general use. The SCC includes a testing center for select on-campus courses, IT web courses, and for courses offered through the Michigan Colleges Online (MCO). The Center provides overflow administration of the COMPASS placement test and exams requiring proctoring.

## **STUDENT HEALTH AND ACCIDENT INSURANCE**

Group health and accident insurance programs are recommended for all students. The coverage should be designed to protect students from medical expense for accidents and illness, including those which occur off campus and during semester breaks or authorized absences, and 24-hour protection for 12 months should be available. Students are encouraged to contact their family insurance carrier. Brochures for specific insurance programs for college students are available in Student Services.

## **WEATHER/EMERGENCY PROCEDURES**

Since concerns for the safety of students and staff is of paramount importance, extreme weather or campus mechanical failure may be sufficient reason for the cancellation or the postponement of classes. When, in the President's judgment, extreme conditions affect the majority of currently enrolled students, classes may be postponed or cancelled. In such an event, students will be notified of the campus closure or postponement via the BayAlert System, local radio and television stations, announcement on the College's phone system greeting, an e-mail to Bay College e-mail accounts, and a message posted on the College's webpage and myBay portal.

Students are not expected to jeopardize their safety in traveling to classes. A reasonable effort to be present is expected. Faculty members can best determine how lost time from classes must be accommodated to ensure completion of the course objectives. Each course syllabus should include a procedure in the event classes are cancelled due to weather or other conditions.

## **FORWARDING MESSAGES TO STUDENTS**

Relaying messages to students on campus is very difficult because of the size of the campus, the number of buildings, and the lack of an intercom system or personnel to deliver messages. Bay College will do its best to deliver EMERGENCY messages ONLY. Contact the Escanaba switchboard for help at 906-786-5802 or the Iron Mountain switchboard at 906-774-8547.



# Student Activities

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## STUDENT ACTIVITIES PROGRAM

The Student Activities program at Bay College is a very important part of college life. Activities and events planned by the various College clubs and organizations do much to supplement academic activities. Through involvement in the Student Activities program, students are provided with opportunities for vocational growth, leadership training, community service, and personal development. The College Student Activities program, Academic Support Services and Commencement are funded through collection of the student development and success fee.

## YMCA MEMBERSHIP FOR BAY COLLEGE STUDENTS:

Bay College students enrolled in six contact hours or more are given access to the YMCA. Below are the open hours:

### **Fall/Winter**

Monday-Friday: 5:00 AM-10:00 PM  
Saturday: 7:00 AM-10:00 PM  
Sunday: 11:00 AM-7:00 PM

### **Summer (Memorial Day - Labor Day)**

Monday-Friday: 5:00 AM-10:00 PM  
Saturday: 7:00 AM-5:00 PM  
Sunday: Closed

Students must present their Bay I.D. card in order to be admitted to the YMCA.

Please note that access privileges extend to currently enrolled students during the semester they are enrolled. Between semesters, students may purchase short term memberships from the YMCA. For more general information please contact the YMCA at 906-789-0005.

The YMCA offers child care services for Bay College students on a limited basis. Contact the YMCA for more specific information at 906-789-0202.

## CAMPUS ACTIVITIES BOARD

The Campus Activities Board (CAB) plans a wide variety of activities for both the campus and the community. These include comedians, speakers, concerts, and special events. CAB is student run and advised by the Director of Student Life. Students interested in joining CAB should contact the Director of Student Life. More information can be found at <https://www.facebook.com/baycab>.

## STUDENT CLUBS AND ORGANIZATIONS

**ANIME CLUB** – From *Attack on Titan* to *Akira*, we love all things Anime! Want to watch Anime with others who also love it? This club is for you!

**ART CLUB** – Art Club is a group of students from Bay College drawn together by our passion for art and creativity.

**BAY AREA CAMPUS MINISTRY – BACM** is an ecumenical Christian student organization that provides students and faculty with opportunities for worshipping God; receiving informal counseling; and participating in Bible Studies, service and outreach projects, and fun activities in a group context.

**BAY AREA WATER ASSOCIATION** – This Association provides special programming and services for interested Water Technology students.

**BAY COLLEGE CATHOLIC CAMPUS MINISTRY** – BCCCM is an organization for students to establish and maintain friendships and to grow in their faith. The club volunteers in the community with local church pantries, soup kitchens, and homeless shelters.

**BAY BUSINESS PROFESSIONALS OF AMERICA (BPA)** - BPA is the leading Career Technical Student Organization for students pursuing careers in business, business management, office administration, information technology, and other career related fields. BPA is an organization dedicated to contributing the preparation of a world class workforce through the advancement of leadership, citizenship, academic, and technological skills.

**BAY SKILLS** - This group is for everyone interested in improving skills in their chosen field of study and competing at local, state, and national levels! Bay Skills works under Skills USA, serving teachers and college students who are preparing for careers in trade, technical and skilled service occupations, including health occupations. For more information regarding Skills USA, please visit [www.skillsusa.org](http://www.skillsusa.org).

**EARLY CHILDHOOD EDUCATION** – Is an opportunity that promotes professionalism in the Early Childhood Program and supports the enrichment of children’s lives.

**EMT & Paramedic Club** – This organization is for Bay College students enrolled in or who have interest in the EMT/Paramedic programs. Our emphasis is on Emergency Medical Services. This is a great way to meet others in the field of study and participate in fun activities as well!

**GAMING GALAXY** – For people who play, collect, and enjoy video games, Gaming Galaxy is for people of similar interests to meet others and make new friends. From retro gaming to the latest consoles, Gaming Galaxy is for you!

**PHI THETA KAPPA (PTK)** – PTK is the National Honors Society for community college students. Phi Theta Kappa provides academic growth programs and scholarship opportunities for Bay students who have earned a 3.2 GPA or higher.

**RENEGADE WRITERS** – This club provides a safe and welcoming environment where people who love writing can converse about it. Members share stories, exchange advice, provide feedback, and serve as a sounding board for fellow writers.

**SCIENCE, TECHNOLOGY, ENGINEERING, & MATH (STEM) CLUB** – The STEM Club’s main purpose is for fun and student/faculty interaction. Club members participate in various activities as scheduled and designed by the members of the club.

**STUDENT NURSE ASSOCIATION** – The Student Nurse Association is for students enrolled in Bay’s LPN and ADN programs. This organization promotes leadership, scholarship and health promotion activities within the Bay College community.

**TRAVEL CLUB** – The Travel Club coordinates an international tour every other year. Tour enrollees participate in fundraising activities and cultural workshops.

**TRIO CLUB** – TriO Club provides students the opportunity to get to know other students and to develop leadership skills through the planning of social, cultural, and community service activities.

Students interested in being a part of any of these student activity programs or in starting new organizations should contact the Director of Student Life in Student Services. Most student activities programs take place during the fall and winter semesters.



# Bay College West

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A full range of student services (Admissions, Financial Aid, and Advising) is available at Bay College West, as well. For more information regarding these services, please call 800-221-2001, or 906-302-3000. You may also check the Bay College West link on our website at [www.baycollege.edu](http://www.baycollege.edu).



## **CAMPUS SECURITY AND CRIME REPORT**

Bay College West does not have campus police or a security department. **Crimes should be reported to 911**, to ensure appropriate response and to aid in providing timely warning notices to the community, when appropriate. Campus Security Authorities are:

<b>Bay College West:</b>	<b>906-302-3000</b>
Director of Student Services:	906-302-3010

## **COMPUTER CENTER**

Bay College West houses computer workstations for student use. The Student Computing Center operates within a wide range of hours to insure we accommodate the needs of both students and faculty. The Center also provides a testing center for administering the COMPASS assessment and proctoring exams. To set testing appointments, please call 906-302-3200.

## **COUNSELING**

Free personal counseling is available to students. Licensed counselors are available on a limited basis to work with students on a variety of concerns. All services are provided on a confidential basis.

## **PAYMENT ON STUDENT ACCOUNTS**

Students may make payments on their accounts, in person, Monday – Friday, 8 a.m. – 4:00 p.m. CST at the Bay College West, Student Services Desk. **Credit Card Acceptance Policy:** Credit card payments may be made on myBay, or in person at the Student Services Desk. Due to the growing threat of credit card fraud, for your protection and in accordance with current regulations, we are no longer able to accept credit cards payments by phone.

## **REQUIRED FORMS**

In addition to their location on a student's myBay pages, a variety of student forms (i.e., Course Change, Application for Graduation, Change of Status, etc.) are available at the Student Services Desk.

## **STUDENT SUCCESS CENTER**

The Student Success Center (SSC) is the home to Bay West's Academic Support Department, consisting of two staff members working within multiple programs to provide diverse support services to students. The SSC houses the TRIO program, the Supplemental Instruction Program, academic success coaching, tutoring, study groups, and placement preparation. In addition to these formal support services, the SSC provides study tools, resources, and areas for use on an as-needed basis, in addition to the only coffee area on campus available to students. Students should stop by the SSC reception desk for help with any of these services. The Student Success Center exists at both campuses.

What students can find in the SSC in Iron Mountain:

- Study area options for individual or group study
- Computers
- Printer
- Reference and study materials for all subjects
- Calculators, headphones, and other technology tools
- Social areas
- Coffee, tea, and snacks

The center is located in Room 221.

Staffed Hours: Monday – Thursday, 8am – 3pm

For more information, call 906-302-3004 or visit our web site at <http://www.baycollege.edu> and click “Academics” > “Academic Support.”

## **DISABILITY SERVICES**

The Office of Accessibility (OOA) is the first stop for information and assistance to support students with disabilities. Academic Accommodations will be provided to afford equal access for qualified students with documented disabilities in compliance with state and federal laws. For each student, these accommodations will address those functional limitations of the disability which adversely affect equal educational opportunity. It is the responsibility of the student to inform the College that they have a disability and that they are requesting an accommodation. Students must contact the Director of the Office of Accessibility (OOA) to request an accommodation.

Mr. Chris Fries  
Director, Office of Accessibility  
Student Success Center  
Escanaba Campus, HUB 811  
906-217-4017  
[ooa@baycollege.edu](mailto:ooa@baycollege.edu)

Students seeking an accommodation must also complete, and submit to the above individual, the an online Request For Services form and provide appropriate documentation of the history and functional implications of the impairment. This form can be accessed from the College's website at <https://mybay.baycollege.edu> after the student logs into their myBay account. The form may also be obtained from the Office of Accessibility at the Escanaba Campus or contacting the Director.

## **TRIO STUDENT SUPPORT SERVICES**

The TRIO Student Support Services program's goal is to increase the college retention and graduation rates of its participants, and to facilitate the transfer of its participants to four-year colleges and universities. TRIO participants may receive peer and professional mentoring, assistance with study skills, career advising, and financial literacy, in addition to opportunities to attend cultural events and visit four-year schools. For more information, contact the Bay College Executive Director of TRIO and Academic Support at 906-217-4132.

## **SUPPLEMENTAL INSTRUCTION**

Supplemental Instruction (SI) is an internationally recognized academic support program that targets traditionally difficult courses. Students come together in regularly scheduled study sessions to compare notes, discuss course materials, develop creative study tools, practice problem solving, and prepare for exams. These sessions are facilitated by trained SI Leaders that attend the course sessions and prepare study materials for use during SI sessions. SI is a great tool to help you learn course material with fellow students and is just one more program that Bay College has implemented to provide you the opportunity to succeed. Check to see if any of your courses have a SI section available! If you have any questions about SI, contact the Academic Support Services Coordinator at 906-302-3004.

# Bay College Training and Development (M-TEC)

## Business and Community Training and Development Services

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Bay de Noc Community College recognizes the need to support businesses and the community with extended educational services. Bay College Training and Development, located at the Michigan Technical Education Center (M-TEC), is the division of the College dedicated to providing businesses and the community with workforce training and professional development.



### **NON-CREDIT PROGRAMS**

Non-credit programs are instructor-facilitated with most having no test or grades. Learning opportunities are offered in 3 formats:

#### **Custom Contract Training:**

Bay College Training and Development provides customized business training solutions and will contract directly with an employer to assess training needs, develop training specific to organizational needs and deliver the training according to the employer's schedule. Training can be delivered at the company site, a Bay College facility, or at an employer-designated/contracted location.

#### **Professional and Workforce Development**

A wide variety of professional continuing education training opportunities are offered. Continuing Education Units (CEUs) are awarded for enrollment in many of the non-credit workshops. The CEU is a nationally recognized standard unit of measure for substantive, non-degree learning experience which meets certain professional criteria. State and Nationally recognized CEUs for individuals seeking to upgrade or maintain their professional credentials may also be available.

Sample trainings include: Corrections, Certified Nursing Assistant (CNA), Nurse Aide Training, Blue Print Reading, CNC Operator Training, Harassment Prevention in the Workplace, Teamwork Building, Hydraulics (Basic & Advanced), ISO Internal Auditor, Lean Manufacturing, MIOSHA, Microsoft Office Applications, Robotics (Basic & Advanced), Confined Space, Electrical, Fall Protection, MSHA 8 and 24 Hour, OSHA, Rigging & Lifting, Welding (training and certification).

## Personal Enrichment

Bay College Training and Development also facilitates learning opportunities for personal enrichment, both for personal interest as well as career advancement. Samples include: Digital Photography and Advanced Digital Photography, Essentials in Human Resource Management, MIOSHA Training Institute (MTI) Level I and II, Healthcare Professional Workshops, Lean Manufacturing, Supervisory Skill Building, Microsoft Office Applications (Access, Excel, PowerPoint, Word), Time Management, QuickBooks, Photoshop Elements, Adult Learner Computer Classes plus more.

## OTHER SERVICES AVAILABLE AT M-TEC:

### Facility Rental

The M-TEC building has classrooms, lab space, and an 18 station computer lab available for company conferences or retreats, or other functions. Audio/visual equipment and catering services can also be arranged. For more information, contact Bay College Conference Services.

### Conferences and Seminars

Bay College Training and Development hosts a variety of conferences and seminars. Examples include: Safety and Workplace Health Conference, Dental and Optometry Seminars, and the Financial Security Seminar.

### Online Coursework

Many professional development and enrichment courses are available through instructor-facilitated online courses. In addition, Online Career Training courses are available providing skills necessary to acquire professional positions in many in-demand occupations.



# Policies

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## **ACADEMIC INTEGRITY**

### **Policy**

Bay College provides opportunities for students to gain the knowledge, skills, judgment, and wisdom they need to function in society as responsible citizens. Plagiarism, falsifying data, and other forms of academic dishonesty are inconsistent with the college's goals and mission. Students are expected to pursue their education at Bay College with honor and integrity.

#### **I. Forms of Academic Dishonesty:**

The following list contains definitions of the main categories of academic dishonesty. Students should work closely with individual instructors to keep informed about specific policies of a particular class.

##### **a. Plagiarism**

Students may not present the ideas or written works of others as their own.

##### **b. Dishonesty in Class Work**

- The work of another may not be submitted to meet the requirements of a course.
- A paper may not be submitted to meet the requirements in two different courses without specific permission of both instructors.
- A laboratory experiment or the report of an experiment may not be falsified.

##### **c. Dishonesty in Examinations**

- Notes, tests, or other memory aids may not be used during an examination; and students may not collaborate on examinations, unless specifically allowed by the instructor.

##### **d. Unauthorized Collaboration**

- A student may not prepare a report, paper, take-home exam, or other course assignments with the help of others unless specifically authorized by the instructor.

##### **e. Hampering or discrediting the academic work of others** including, but not limited to, the following

- Misusing, mutilating, hiding, or stealing library materials;
- Altering or misusing computer programs or equipment;
- Interfering with the rightful computer access of others;
- Hiding or altering another student's work.

##### **f. Falsifying records**

- A student may not falsify any college records or forms or falsify signatures for the purpose of enhancing one's position, academic standing, or for financial gain. Records and forms include, but are not limited to applications, computer records, and registration forms.

##### **g. Inappropriate or illegal usage of Bay College computers and network**

- See the Acceptable Technology Use Policy for specifics.

#### **II. General Guidelines:**

Students assume full responsibility for the content and integrity of the coursework they submit. The following guidelines will assist students in practicing academic integrity:

- Students must do their own work and submit only their own work on examinations, reports, and projects, unless otherwise permitted by the instructor. Students are encouraged to contact their instructor about appropriate citation guidelines.
- Students may benefit from working in groups. They may collaborate or cooperate with other students on graded assignments or examinations as directed by the instructor.
- Students must follow all written and/or verbal instructions given by instructors or designated college representatives prior to taking examinations, placement assessments, tests, quizzes, or evaluations.
- Students are responsible for adhering to course requirements as specified by the instructor in the course syllabus.

#### **III. Responsibilities and Rights of Students:**

It is the responsibility of students to know the Academic Integrity Policy of Bay College and adhere to it. It is the responsibility of the student to be proactive in learning the academic policies associated with a specific course and a specific assignment. In the event of an interpersonal conflict with an instructor concerning the Academic Integrity Policy, students have the right of appeal to the Academic Affairs Office.

#### **IV. Responsibilities and Rights of Instructors:**

Academic integrity violations should be reported when the instructor issues the sanction. Sanctions for violations of the Academic Integrity Policy may not be issued without being reported.

## Procedure

Upon discovery of a violation of the Academic Integrity Policy, the instructor should meet with the student to discuss the violation, issue an appropriate sanction, and complete the Academic Integrity Violation and Sanction Report.

### I. **Students may:**

- a. admit responsibility and accept the sanction,
- b. admit responsibility, accept the sanction but request a hearing, or
- c. deny responsibility, reject the sanction, and request a hearing.

### II. **Personnel involved**

All Academic Integrity Violation and Sanction Reports are forwarded to the Academic Dean and the Executive Dean of Student Services for review. Requests for hearings should include all supporting documentation.

### III. **Hearings**

Students requesting a hearing will meet with the Academic Dean within ten (10) business days of completing the violation form. The Dean will determine whether academic sanctions are appropriate, and students will be notified of the Dean's decision within ten (10) business days of the hearing.

### IV. **Appeals**

Students not satisfied with the Dean's decision may appeal that decision to the Academic Affairs Office within ten (10) business days of notification of the Dean's decision. The Academic Affairs Office will review all available material, render a decision, and notify the student within ten (10) business days. The decision of the Academic Affairs Office is final.

In addition to academic sanctions, students who violate the Academic Integrity Policy may also be found in violation of the Student Code of Conduct and face conduct sanctions through Student Services.

## **STUDENT CONDUCT AND DISCIPLINE**

Students at Bay College have rights and protections under the Constitution and laws of the United States and the State of Michigan. These rights include freedom of speech, press, religion, and assembly. Any student accused of violating college policies, rules, and/or regulations is entitled to whatever procedural due process is required by law.

When students are admitted to Bay College, they accept the rights and responsibilities of membership in the college's academic and social community. Honesty is expected of each student at Bay College. Each student is expected to respect the rights of others and to work to create an open, caring and intellectually stimulating environment where diversity of ideas is valued and every person's dignity and autonomy are respected. Students at Bay College are expected to be responsible for their actions and to respect the rights of others.

### **Procedure**

Students committing misconduct, including but not limited to the following infractions, on Bay College property or official College functions is prohibited. Students may also be subject to discipline for engaging in misconduct even though it does not occur on Bay College property or at official College functions if there is sufficient connection between the conduct and the College to warrant discipline.

1. Interference and/or disruption with the teaching and learning process including the use of profanity toward another student or faculty/staff member.
2. Physical abuse, verbal abuse, threats, intimidation, harassment, coercion and/or other conduct that threatens or endangers the health or safety of any person, including: sexual assault against any student, faculty, staff or guest of the college.
3. Discrimination in regard to age, color, disability/handicap, height, marital status, national origin, political affiliation, race, religion, sex, gender, sexual orientation, veteran's status, or weight.
4. Interference by force, threat, harassment or duress with an individual's personal safety, academic efforts, employment, or participation in college- sponsored activities and/or creating a reasonable apprehension that such interference is about to occur. This would include stalking.
5. Disruption of college activities and college business, including but not limited to classes, convocations, and student services.
6. The continued occupation of a college facility after being requested to leave by any person acting as an agent of the college.
7. Defacement, damage to, or theft of college property and/or that of another student, faculty, staff, or guest of the college.
8. Tampering with fire alarms, safety systems or unauthorized setting of fires.
9. Furnishing false information to the college (such as residency status), forgery, misuse or alteration of any college document or misuse of the college computer system.
10. Academic cheating or plagiarism or aiding or abetting cheating or plagiarism, that may also result in academic penalties under the College's Academic Integrity Policy and Procedure #3018.
11. Making a false report concerning a fire, bomb, or other alleged emergency.
12. Use, possession, manufacture, or distribution of controlled substances, and look-a-like drugs. The use of alcoholic beverages as prohibited by Bay College policies and/or state law.

13. Possession, while on campus or at a college-sponsored function, of any weapons, including but not limited to, firearms, explosives, dangerous chemicals, dagger, dirk, stiletto, or knife with a blade over three inches in length, brass knuckles, licensed weapons or objects or instruments possessed for use as a weapon or for direct or indirect delivery to another person for use as a weapon.
14. Willful disobedience of college officials or designated agents acting in the performance of their duties.
15. Willful violation of college rules, regulations, procedures and policies as promulgated in college policy statements.
16. Violation of state or federal law, including copyright laws.
17. Unauthorized possession, duplication or use of keys to any college premises or unauthorized entry to or use of any college premises.
18. Conduct which is disorderly, lewd, or indecent; breach of peace, or aiding, abetting, or procuring another person to breach the peace on college premises or at functions sponsored by, or participated in by, the college.
19. Theft or other abuse of technology resources, including but not limited to: (See the Acceptable Technology Use Policy for specifics.
  - A. Unauthorized entry into a file, to use, read, or change the contents, or for any other purpose.
  - B. Unauthorized transfer of file.
  - C. Unauthorized use of another individual's identification and password.
  - D. Use of technology resources to interfere with the work of another student, faculty member or college official.
  - E. Use of technology resources to send or publish threatening, obscene or abusive messages.
  - F. The use of technology resources to view obscene or offensive images, or those prohibited by law.
  - G. Use of technology resources to interfere with the normal college operations

## **DISRUPTIVE STUDENTS**

Disruptive conduct taints the educational atmosphere and may endanger the safety of students and staff. Accordingly, when student conduct on campus creates a serious enough disruption such that the only reasonable solution is removal of the student, a faculty/staff member may temporarily suspend or permanently expel that student from class/campus.

Although student disruptiveness issues will generally initially be approached as informally as circumstances allow, the College reserves the right to take all actions necessary to protect its educational interests, and to protect the safety and security of its students, faculty, staff, and property. Under circumstances where informal procedures have been unsuccessfully implemented, the College may in its discretion also implement the following formal procedures.

1. The faculty or staff member will verbally warn the student when the student's behavior is considered to be disruptive (describe the behavior to which the faculty/staff member is referring) and that if the student continues the behavior, s/he will be asked to leave the class/building.
2. If the student persists with the disruptive behavior, the faculty/staff member can then ask the student to leave the class or campus. At this time the faculty/staff must warn the student that failure to leave may result in police intervention. The faculty/staff must indicate whether the suspension is just for that day or if the student must appeal to the appropriate Division Chair to reenter the class. In other words, clarify for the student whether the suspension is temporary or permanent.
3. If after the previous verbal warnings the student continues to demonstrate disruptive behavior, the faculty/staff will summon the appropriate police agency that will have the option of arresting the student for criminal trespass, if necessary. The faculty/staff member's request for the student to leave provides the police agency with sufficient probable cause to affect an arrest.
4. If as a result of faculty/staff member's request for expulsion the student leaves the classroom/campus, the faculty/staff will notify their Division Chair or immediate supervisor in writing within 24 hours of the incident. The written report must include the student's identity and the behavior that was considered to be disruptive. Sufficient detail must be provided to allow the Chair/Supervisor to assess whether or not the policy was followed. Please note that the written report is only necessary when considering expulsion. The faculty/staff member handles temporary suspension informally.
5. The Division Chair/Supervisor must immediately contact the student by phone, with a follow-up through registered mail, notifying them of the opportunity to explain the incident from the student's point of view. In addition, this notice will include the date by which the student must respond back to the Division Chair (or designee) or else forfeit their right to appeal the expulsion. Generally, the student will be given three class\* days to respond in person, by phone, or mail (postmarked). Within 24 hours of the conclusion of the meeting to review the suspension, the Chair/Supervisor will decide if the removal was justified or if the student should be reinstated. The Chair/Supervisor may find it necessary to consult with other College employees, students, or records for additional information upon which to base their decision. The Chair/Supervisor may support or deny the removal, or make other arrangements for the student.
6. The decision of the Chair/Supervisor will be conveyed to the student and the faculty/staff member who caused the removal as soon as possible, either in person or by phone. A written confirmation of the decision will be sent to both the staff member and the student within three class days. Within three class days of the receipt of the written decision, the student or the staff member may appeal in person, by phone, or in writing the decision to the appropriate Dean/Supervisor (identified in the written decision by the Chair); whose decision will be final.

7. It is important to emphasize that each step of the process should proceed as quickly as possible, while maintaining fairness and objectivity.

\*For the purpose of this policy, class days include only Monday-Friday when Bay College classes are in session.

## **STUDENT COMPLAINT AND HEARING PROCESS**

Where appropriate, every effort will be made to first resolve conflicts through informal discussions with the involved parties. If this fails, a written complaint may be filed as outlined below. In computing any time limit specified under this process, Saturdays, Sundays, official school closings, and holidays will be excluded. The Executive Dean of Student Services, or his/her designee, has the authority to adjust time lines as deemed necessary because of extraordinary circumstances.

### **A. Complaint**

1. A complaint alleging violations of a College rule and/or regulation may be filed in writing against any student. Complaints must be filed within a reasonable length of time. This report shall then be forwarded to the Executive Dean of Student Services, or his/her designee, for action.
2. After consultation with the student involved and after undertaking other investigations that may be appropriate under the circumstances, the Dean of Student Services, or his/her designee, shall take one of the following actions:
  - a. Dismiss the complaint.
  - b. Invoke a specific sanction.

### **B. Sanctions**

The following sanctions for violations of the College's policies, rules and regulations may be imposed at the College's discretion, depending upon the infraction's severity:

1. Expulsion from Bay College (i.e., permanent removal of the privilege to attend Bay de Noc Community College); \*
2. Suspension from Bay College for a definite period of time and/or pending the satisfaction of conditions for re-admission (i.e., suspension of the privilege to attend Bay College); \*
3. Removal from all class(es) for which the student is currently registered;
4. Restitution for damages;
5. A specified period of college and/or community service;
6. Disciplinary probation with or without the loss of privileges for a definite period of time. The violation of the terms of the disciplinary probation or the breaking of any College rule during the probation period may be grounds for suspension or expulsion from the College;
7. Disciplinary caution or warning;
8. Any other sanction the college deems educationally appropriate.

\* If the suspension or expulsion from the College is for a period greater than 10 days, the student has the right to initiate the Formal Hearing Procedures.

The action taken by the Executive Dean of Student Services, or his/her designee, will be communicated to the student in writing within five (5) working days.

The student may do either of the following:

- Accept the decision.
- Notify the Executive Dean of Student Services within three (3) working days to initiate a formal hearing where suspension or expulsion is greater than 10 days.

### **C. Student Formal Hearing Procedures**

1. The Executive Dean of Student Services, or his/her designee, shall convene the Committee to conduct a formal hearing within ten (10) working days of the receipt of a written request for a formal hearing. The student will be advised of the date, time, and place of the scheduled hearing.
2. The hearing shall be governed by the following rules of procedure:
  - a) The person charged shall have the right to have his/her defense conducted by an advisor of his/her choice, the right to hear and examine adverse witnesses, and the right to testify and present evidence and witnesses in his/her own behalf. If legal counsel represents the person charged, the committee may be supplied legal counsel by the College. (The student is responsible for all costs and expenses of legal counsel retained by him/her.) The Committee has the right to reasonably control the presentation of evidence and the examination and cross-examination of witnesses.
  - b) The Executive Dean of Student Services, or his/her designee, has the burden of proving that each charge is true. The student shall be regarded as innocent of the charges until guilt is established by a preponderance of

the evidence by the Committee. "Established by a preponderance of the evidence" means that the Executive Dean of Student Services must persuade the committee that it is more probable than not that the charges are true. The Executive Dean of Student Services has the initial burden of producing evidence to prove each charge. The Executive Dean of Student Services must present the evidence in support of the charges first, and then the student must present evidence to refute the Executive Dean of Student Services' evidence.

- c) If the accused student shall fail to appear after due notice, or, if having appeared, shall make no response to the complaint, the Committee shall proceed with the hearing.
3. Within ten (10) days of the conclusion of the hearing, the committee shall file a report containing findings of facts and conclusions. If the person charged is found guilty, the committee shall impose appropriate sanctions. The Executive Dean of Student Services, or his/her designee, shall inform the individual charged in person or by registered mail of the committee's decision. If the hearing was conducted in the absence of the individual charged, the report shall so indicate.
4. The Executive Dean of Services, or his/her designee, shall keep a summary record of the proceedings in a confidential file. All applicable guidelines as specified by the Family Education Rights and Privacy Act of 1975 shall be followed regarding student record privacy.
5. Sanctions may be appealed in writing to the President. An appeal must be made within five (5) school days after the student has received the committee's decision.
6. Student Formal Hearing Committee: This committee shall be composed of two faculty members selected by the full-time or part-time Faculty Association and two students selected by the Student Government.

## **CAMPUS SECURITY AND CRIME REPORT**

Bay College has a proud history of providing a safe learning environment for its students and employees. A wide variety of policies and procedures have been developed over the years to ensure the health and safety of students, employees, and visitors to the campuses. However, crime can happen anywhere. Protect yourself, others, and property by staying alert, safety-conscious and informed.

Bay College cooperates with the local department of public safety for campus safety and security. Additional security may be retained to monitor special events occurring on campus. All students, employees, and guests are to promptly and accurately report criminal incidents, accidents, and other emergencies to Public Safety by dialing 911.

### **Reporting a Crime or Other Emergency**

All students, employees, and guests should promptly report criminal incidents, accidents, and other emergencies by dialing 911 or in the event of a non-emergency by filling out an internal incident report form. On the baycollege.edu home website, go to the bottom of the webpage and find the Campus Security link within the "Around Campus" list. At the left is a link called "Incident Report." Please complete the report to the best of your knowledge, ensuring you leave appropriate contact information. A campus representative will be in touch with you regarding the incident.

### **Confidential Reporting**

If you are the victim of a crime and do not want to pursue action within the College system or the criminal justice system, you may want to consider making a confidential report. You can file a report without revealing your identity, however if you report the incident to a Campus Security Authority (CSA), the CSA may need to report the incident, keeping your identity private. The CSA can help you navigate to the online reporting tool where you can report anonymously and/or they can provide you with counseling contact information. The purpose of a confidential report is to comply with your wish to keep the matter confidential, while taking steps to ensure the future safety of yourself and others. With such information, the College can keep an accurate record of the number and types of incidents and determine where there is a pattern. Reports filed in this manner are counted and disclosed in the annual crimes statistics for the institution.

### **Campus Safety Alerts**

In the event that a situation arises, either on or off campus, that constitutes an ongoing or continuing threat, a campus wide "timely warning" will be issued through the college's emergency communication system. Students are encouraged to register to receive a BayAlert message regarding campus closures due to an emergency, severe weather or mechanical failure. Sign up for BayAlert messages in the Campus Security page off the baycollege.edu website.

Depending on the particular circumstances of the crime, especially in all situations that could pose an immediate threat to the community and individuals, the College may also post an electronic notice on the College web and on the myBay portal as well as notify local media, providing the campus community with more immediate notification. In such instances, a copy of the notice is also distributed to each campus student apartment.

### **Sex Offender Registry**

In accordance with Federal law, Bay College provides a hyperlink on the College's website to the Michigan State Police Sex Offender Registry. The purpose of this link is to advise the campus community where law enforcement information provided by

the State of Michigan concerning registered sex offenders may be obtained. In Michigan, convicted sex offenders must register with the Sex Offender Registry. The Michigan State Police is responsible for maintaining this registry. Find the link in the Campus Security page off the baycollege.edu website.

### **Annual Security Report**

The College prepares an Annual Security and Fire Safety Report in compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act. This report contains information regarding reporting of crimes and other emergencies occurring on campus, the college's security policies, and the crime arrest and referral statistics reported to designated campus officials and local law enforcement agencies. Visit the Campus Security page off the baycollege.edu website for the link. A copy of the report may also be obtained at the office of the Vice President of Operations located in the Catherine Bonifas building room 202A or by calling (906) 217-4077. At West Campus a copy may be obtained at the office of the Vice President of Bay College West, room 215.

### **Campus Security Authorities**

Bay College complies with the Department of Education and the Clery Act which requires the institution to assign Campus Security Authorities (CSA). A CSA is a resource if you are unable to report a crime or incident yourself, please contact one of the CSA's listed below to assist in reporting the incident. The list is located online here:

<http://baycollege.edu/BayCollege/media/AroundCampus/2016-Annual-Security-Report-ASR-Final.pdf>

## **SUBSTANCE ABUSE POLICY AND PROCEDURE**

The following information is presented in accordance with the Drug-free Schools and Communities Act Amendments of 1989.

### **Standards of Conduct**

It is the policy of Bay College that the transportation, possession or consumption of an alcoholic beverage or a controlled substance on college property is prohibited.

### **Legal Sanctions**

Students who illegally use alcoholic beverages or controlled substances on college property face disciplinary action, suspension from the college, and/or prosecution under the law. Any person who illegally sells, provides, transports, possesses or consumes alcoholic beverages or controlled substances on college property may face immediate arrest and prosecution under applicable federal, state and local laws. Penalties under these laws may include fines, imprisonment or both.

### **Health Risks**

Illegal use of alcohol or controlled substances can result in illness, injury or death.

### **Available Counseling and Treatment Programs**

All students and employees will have access to substance awareness workshops, seminars, and classes offered at the college. A student or employee who voluntarily seeks assistance to overcome substance abuse problems will receive counseling services on a confidential and non-punitive basis. When necessary, referral will be made to a community agency for assessment, prescribed treatment, and follow-up.

Treatment programs are available at the following agencies:

Delta County Alcohol and Other Drug Services	906-786-9639
Dickinson County Coordinating Agency Assessment Services	906-779-1999
Marquette General Hospital	800-562-9753

Students and employees participating in counseling or a program are not exempt from college policies, procedures or rules.

### **Disciplinary Sanctions**

Students and employees who illegally use alcoholic beverages or controlled substances on college property face disciplinary action, suspension from the college, and/or prosecution under the law.

## **INFORMATION TECHNOLOGY POLICIES**

Bay de Noc Community College students are required to read, understand, and accept three Board of Trustees policies:

1050	Internet and Computer Acceptable Use Policy
1051	Peer-to-Peer File Sharing Policy
1052	Password and Account Policy

The policies are located on myBay under Current Students > Forms, Docs, Policies > Information Technology Policies.

These policies protect student electronic information, define access to resources, and guide student activity online in compliance with state and federal law, as well as Bay College guidelines and procedures.

### **Non-Compliance Penalties**

Penalties for violation of any of the above policies will vary depending on the nature and severity of the violation. Penalties may include:

- Disciplinary action as outlined in the College catalog;
- Civil or criminal prosecution under applicable state and federal law(s).

### **United States Copyright Law**

Copyright is a form of protection provided by the laws of the United States (Title 17, U.S. Code) to the authors of "original works of authorship," including text and content, images, computer software, motion pictures, and music. Unauthorized copying or downloading of copyrighted material is in violation of U.S. copyright laws. You may not copy or redistribute copyrighted software, music, or other information and you may not attempt to override copy protection on commercial software. For more information on copyright and fair use provisions, go to the Bay College Library web site (<http://library.baycollege.edu>).

### **More Information**

More information about Bay College's policies is available on myBay > Current Students > Forms, Docs, Policies.

## **REFUND APPEALS**

If a course is cancelled, students will receive an automatic refund. If a student experiences extenuating circumstances related to tuition, payments, refunds, financial forgiveness, etc., that warrant further review, he/she has the option to send a letter of appeal to the Executive Dean of Student Services. The letter should include the circumstances, a detailed request, and supporting documentation. Appeals are reviewed by an Appeals Committee and written responses are sent explaining the decision and any specific circumstances.

## **NON-DISCRIMINATION AND ANTI-HARASSMENT POLICY**

Bay de Noc Community College Board of Trustees is committed to providing an educational and employment environment free from discrimination or harassment on the basis of race, color, national origin, religion, sex, age, disability or other protected status. Accordingly, discrimination or harassment on the basis of race, color, national origin, religion, sex, age, disability or other protected status is prohibited at Bay de Noc Community College. This prohibition extends to the entire campus community, including but not limited to, the College's administration of its admission, financial aid, employment, and academic policies, as well as the College's athletic programs and other college administered programs, services and activities. This policy applies to all employment practices, including recruitment, selection, promotion, transfer, and employee training and development. The College also does not permit any person or entity using its facilities for commercial purposes to engage in unlawful discrimination. This policy is intended to be consistent with the provisions of applicable state and federal laws and other College policies. All employees and students are responsible for ensuring a work and educational environment are free from and prohibit discrimination and harassment. Employees and students have an obligation to report violations of this Policy. The Bay de Noc Community College Board of Trustees also expressly prohibits retaliation against any employee or student who alleges that she or he was the victim of discrimination/harassment, provides information in the course of an investigation into claims of discrimination/harassment in the workplace, or opposes a discriminatory practice which is prohibited by this policy. No employee or student bringing a complaint, providing information for an investigation, or testifying in any proceeding under this policy shall be subjected to adverse employment or educational consequences based upon such involvement or be the subject of other retaliation.

Questions concerning Title IX of the Education Amendments of 1972, which prohibit discrimination on the basis of sex/gender, should be directed to either the Title IX Coordinator or a Deputy Title IX Coordinator.

<b>Bridget Kennedy</b>	<b>Beth Berube</b>	<b>Dave Laur</b>
Title IX Coordinator	Deputy Title IX Coordinator-Employees	Deputy Title IX Coordinator-Students
Director of Human Resources	Human Resources Specialist	Director of Student Life
<a href="mailto:bridget.kennedy@baycollege.edu">bridget.kennedy@baycollege.edu</a>	<a href="mailto:beth.berube@baycollege.edu">beth.berube@baycollege.edu</a>	<a href="mailto:dave.laur@baycollege.edu">dave.laur@baycollege.edu</a>
906-217-4049	906-217-4036	906-217-4031
Bay College	Bay College	Bay College
2001 N. Lincoln Rd.	2001 N. Lincoln Rd.	2001 N. Lincoln Rd.
Escanaba, MI 49829	Escanaba, MI 49829	Escanaba, MI 49829

A complaint may also be filed electronically by going to the College website ([www.baycollege.edu](http://www.baycollege.edu)), selecting the "Campus Safety" link, and selecting the "Incident Report" link (<https://publicdocs.maxient.com/incidentreport.php?BayCollege>).

## **Student Disability Discrimination/Harassment**

Any student who believes that he/she has been subjected to discrimination or harassment by the College, or one of its employees, on the basis of a disability, as specified above, shall promptly report the matter to the Director of the Office of Accessibility:

**Mr. Chris Fries**  
**Student Success Center**  
**Escanaba Campus, Room 811**  
**(906) 217-4017**  
[ooa@baycollege.edu](mailto:ooa@baycollege.edu)

All complaints of discrimination or harassment on the basis of a disability made to the Director of the Office of Accessibility shall be handled in accordance with the Student Grievance and Appeal Procedure outlined in Policy 1061.3 1060.3 Student Non-Disability Discrimination/Harassment Any student who believes that he/she has been subjected to discrimination or harassment, other than on the basis of a disability, as specified above, shall promptly report the matter to the Executive Dean of Student Services:

**Travis Blume**  
**Student Services**  
**Escanaba Campus, Room 503**  
**(906) 217-4116**  
[Travis.blume@baycollege.edu](mailto:Travis.blume@baycollege.edu)

The written complaint must contain the following information:

- The student's name, student number, address, and telephone number;
- The name of the individual the student believes has discriminated against him/her;
- A detailed description of the behavior which the student believes shows that he/she was discriminated against;
- A description of any action the student has taken to resolve the alleged discrimination;
- A list of the names of each and every individual the student believes to have witnessed the discriminatory activity.

The student shall sign the written complaint. Within five (5) business days of receiving the written complaint, the Executive Dean of Student Services, shall commence an investigation into the allegations included within the complaint. The investigation will include interviewing: the student, the accused and any witnesses identified. The investigation may also include reviewing any appropriate documentation and/or policies, and any other action(s) the Executive Dean of Student Services deems necessary to completing the investigation. To complete the investigation, the Executive Dean of Student Services will make a final determination on the merits of the complaint. The Executive Dean of Student Services will document in writing his/her findings and determination.

If the Executive Dean of Student Services determined that the complaint has merit, the following actions will be taken:

- The Executive Dean of Student Services will coordinate with the appropriate supervisor(s) and vice president(s) to determine what action is necessary to resolve the complaint and prevent a recurrence.
- The Executive Dean of Student Services will inform the student and the accused in writing of the findings and determination, and where appropriate, of the action to be taken.
- Appropriate discipline will be imposed where applicable, based upon the severity of the incident and the prior record of the accused. In the event that the penalty imposes less than termination of employment, the Anti-Discrimination/ Anti-Harassment Policy will be reviewed with the offender.
- The findings and determination, as well as the documented disciplinary action will be placed in the offender's personnel file.
- All documentation regarding the complaint and investigation will be maintained in a separate file. The College will discard this file three (3) years after the date of the findings and determination, unless litigation or charges have been brought related to the complaint and investigation.
- In the event the Executive Dean of Student Services determined that the complaint is without merit, the following actions will be taken:
  - The findings and determination will be discussed individually with the student and the accused. In addition, the individuals who need to know (in the opinion of the College) will be advised of the findings and conclusions.
  - All references to the complaint will be removed from the personnel file of the accused.
  - All documentation regarding the complaint and the investigation will be maintained in a separate file. The College will discard this file three (3) years after the date of the findings and determination, unless litigation or charges have been brought relating to the complaint and the investigation.

# Academic Requirements

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## **GENERAL EDUCATION AND YOUR DEGREE**

### **A Message from the President Regarding General Education**

An educated person should be able to read and comprehend, to write clearly, to compute and solve a variety of mathematical problems, and possess the skills necessary to be successful in a particular field. The general education portion of your degree program provides you with broad skills which are considered critical in today's global economy: independent thought, critical thinking, responsible citizenship, knowledge of history and other cultures, appreciation of the arts, and a global perspective. These skills enable you to learn new job skills rapidly, which in the coming years will prove important as technology knowledge doubles weekly and human knowledge doubles yearly thus propelling significant changes in the workplace on a regular basis.

As a student at Bay College, you will develop these broad based skills. You will be exposed to many areas of knowledge, from the sciences to the fine arts. The purpose of general education at Bay College is to help all students develop the skills and knowledge that are essential to becoming satisfied, knowledgeable, and productive individuals and citizens.

Good luck as you pursue your educational goals at Bay College!



Laura Coleman, Ph.D.  
President of Bay de Noc Community College

## **BAY DE NOC COMMUNITY COLLEGE'S GENERAL EDUCATION PHILOSOPHY**

All associate degree graduates of Bay de Noc Community College will possess those qualities, abilities, skills, and knowledge which give them new insights, challenge them to consider new possibilities, create community, and sensitize them to other perspectives.

## **BAY COLLEGE GENERAL EDUCATION**

All associate degree graduates of Bay de Noc Community College will possess those qualities, abilities, skills, and knowledge which give them new insights, challenge them to consider new possibilities, create community, and sensitize them to other perspectives.

By graduation, all associate degree students need to meet the General Education outcomes that stem from the categories of Communication, Mathematics, Natural Science, Social & Behavioral Science, and Humanities. Students are required to take approved courses from the following General Education Course list. For information regarding a specific program, students are encouraged to examine the program's requirements as listed in this catalog and to consult with their advisor.

### **Five General Education Categories**

1. Communication  
Demonstrate proficiency in communicating effectively by writing in standard English. Additional studies may include demonstrating proficiency in communication through written, oral, or non-verbal messages and an understanding of the theoretical principles and practices of communication.
2. Mathematics  
Develop problem-solving techniques by using mathematical formulas and critical thinking skills.
3. Natural Science  
Demonstrate broad contemporary knowledge about a natural scientific field, the process of science, and the ability to apply scientific reasoning.
4. Social & Behavioral Science  
Develop social awareness and responsibility through understanding national and global issues.
5. Humanities  
Develop social awareness of how society and culture interplay in artistic expression and enrichment.

### **Associate in Arts Degree**

Associate in Arts (AA) students will take two Communication courses (ENGL-101 required), one Mathematics course, two Natural Science courses (one with a lab), two Social & Behavioral Science courses, and two Humanities courses. Completing the General Education requirements will satisfy MTA provided you follow the MTA requirements listed in the catalog when choosing courses within each category.

A minimum of 30 general education credits will be taken. If more than the nine courses shown below are taken to achieve the 30 credit minimum, the additional courses may be taken from any of the five general education categories.

See list of General Education Courses for specific courses that fulfill each category

General Education Category	Courses
Communication	2 (ENGL-101 required)
Mathematics	1
Natural Science	2 (1 with a lab)
Social & Behavioral Science	2
Humanities	2
	TOTAL CREDITS      Minimum 30

## **Associate in Science Degree**

Associate in Science (AS) students will take two Communication courses (ENGL-101 required), one Mathematics course, two Natural Science courses with a lab, two Social & Behavioral Science courses, and two Humanities courses. Completing the General Education requirements will satisfy MTA provided you follow the MTA requirements listed in the catalog when choosing courses within each category.

A minimum of 30 general education credits will be taken. If more than the nine courses shown below are taken to achieve the 30 credit minimum, the additional courses may be taken from any of the five general education categories.

See list of General Education Courses for specific courses that fulfill each category

General Education Category	Courses
Communication	2 (ENGL-101 required)
Mathematics	1
Natural Science	2 (1 with a lab)
Social & Behavioral Science	2
Humanities	2
TOTAL CREDITS      Minimum 30	

## **Associate in Applied Science Degree**

Associate in Applied Science (AAS) students will take one Communication course (ENGL-101 required), one Mathematics or Natural Science course, and one Social & Behavioral Science or Humanities course. Two additional courses will be taken. These additional courses may be from any of the five General Education categories.

A minimum of 15 general education credits will be taken. If more than the five courses shown below are taken to achieve the 15 credit minimum, the additional courses may be taken from any of the five general education categories.

See list of General Education Courses for specific courses that fulfill each category

General Education Category	Courses
Communication	1 (ENGL-101 required)
Mathematics/ Natural Science	1
Social & Behavioral Science/ Humanities	1
Additional	2 additional courses
TOTAL CREDITS      Minimum 15	

# GENERAL EDUCATION COURSES

Honors designated versions of these course numbers also apply in this listing.  
Example: ANTH-201 and ANTH-201H.

## Communication

3	COMM-103	Interpersonal Communication
3	COMM-104	Public Speaking
3	COMM-120	Small Group Process
3	ENGL-101	Rhetoric and Composition *
3	ENGL-102	Research Writing
3	ENGL-145	Technical and Report Writing

\* Required for all degrees

## Mathematics

3	BUSN-177	Mathematics of Business **
4	MATH-105	Intermediate Algebra **
4	MATH-106	Technical Algebra and Trigonometry **
4	MATH-107	Liberal Arts Mathematics ***
4	MATH-110	College Algebra
3	MATH-111	Trigonometry
4	MATH-130	Math for Elementary Teachers I ***, +
5	MATH-141	Analytical Geometry and Calculus I
5	MATH-142	Analytical Geometry and Calculus II
4	MATH-210	Introduction to Statistics
5	MATH-243	Analytical Geometry and Calculus III
3	MATH-244	Differential Equations
3	MATH-250	Introduction to Linear Algebra

\*\* AAS degrees only

\*\*\* AA or AAS degrees only

+ Does not count for MTA

## Natural Science

4	BIOL-103	Essential Biology
4	BIOL-104	Human Biology
3	BIOL-107	Environmental Science*
4	BIOL-107/108	Environmental Science & Lab
4	BIOL-110	Evolution and Diversity
4	BIOL-112	Cells and Molecules
4	BIOL-202	Plants and Animals
4	BIOL-213	Anatomy and Physiology I
4	BIOL-214	Anatomy and Physiology II
4	BIOL-226	Microbiology
4	BIOL-255/256	Genetics & Lab
4	BIOL-270/271	Ecology & Lab
4	CHEM-103	Essential Chemistry
4	CHEM-107	Human Chemistry
5	CHEM-108	Technical Chemistry
5	CHEM-110	General Chemistry I
5	CHEM-112	General Chemistry II
4	CHEM-201	Organic Chemistry I
4	CHEM-202	Organic Chemistry II
4	GEOG-110	Physical Geography
4	PHYS-103	Conceptual Physical Science
4	PHYS-104	Introduction to Astronomy*
4	PHYS-201	Elements of Physics I
4	PHYS-202	Elements of Physics II
5	PHYS-205	Engineering Physics I
5	PHYS-206	Engineering Physics II

### \* Non Laboratory Courses

**Note:** Courses taken to satisfy MTA – Natural Science, Social Behavioral & Humanities must be from 2 different subject areas.

*Not all courses listed are offered regularly.*

## Social & Behavioral Sciences

3	ANTH-201	Introduction to Cultural Anthropology
3	ECON-120	Personal Finance
3	ECON-131	Macroeconomics
3	ECON-132	Microeconomics
3	EDUC-202	Educational Psychology
3	GEOG-102	Introduction to Geography
3	GEOG-121	World Regional Geography
3	GEOG-125	World Regional Geography –Developed World
3	GEOG-126	World Regional Geography –Developing World
3	HIST-101	Western Civilization to 1600
3	HIST-102	Western Civilization 1600 to Present
3	HIST-211	U.S. History to 1865
3	HIST-212	U.S. History 1865 to Present
3	HIST-220	Michigan History
3	HIST-224	Native American History
3	HIST-228	American Women's History
3	HIST-232	History of Technology in America
3	LEAD-200	Introduction to Leadership
3	PHIL-230	Introduction to World Religions
3	POLI-110	Comparative Government and Politics
3	POLI-111	American Government
3	POLI-201	International Relations
3	POLI-262	State and Local Government
3	PSYC-201	Introduction to Psychology
3	PSYC-206	Social Psychology
3	PSYC-210	Psychology of Learning
3	PSYC-220	Developmental Psychology
3	PSYC-280	Abnormal Psychology
3	SOCY-103	Cultural Diversity
3	SOCY-151	Sociology
3	SOCY-205	Juvenile Delinquency and Justice
3	SOCY-206	Sociology of Death and Dying
3	SOCY-207	Social Problems
3	SOCY-208	Marriage and the Family
3	WGST-200	Intro to Women's & Gender Studies

## Humanities

3	ANTH-201	Introduction to Cultural Anthropology
3	ARTS-163	Theater Appreciation
3	ARTS-204	Art History I
3	ARTS-207	Art History II
3	COMM-201	Mass Communication & Popular Culture
3	COMM-225	Intro to Film: History and Interpretation
3	ENGL-150	Introduction to Literature
3	ENGL-200	American Literature
3	ENGL-203	Shakespeare
3	ENGL-205	World Literature
3	ENGL-208	Writing Poetry and Short Fiction
3	ENGL-209	Writing Creative Non-Fiction
3	ENGL-210	British Literature
3	ENGL-211	Women's Literature
3	ENGL-280/281/282	Special Topics in Literature
3	FREN-111	French I
3	FREN-112	French II
3	GRMN-101	German Language and Culture I
3	GRMN-102	German Language and Culture II
3	HIST-101	Western Civilization to 1600
3	HIST-102	Western Civilization 1600 to Present
3	HSER-150	Ethics in Human Services
3	MUSC-153	Music Appreciation
3	PHIL-201	Introduction to Western Philosophy
3	PHIL-202	Introduction to Asian Philosophy
3	PHIL-203	Introduction to Biomedical Ethics
3	PHIL-204	Introduction to Ethics
3	PHIL-230	Introduction to World Religions
3	SPAN-101	Spanish I
3	SPAN-102	Spanish II
3	SPAN-220	Spanish III
3	WGST-200	Intro to Women's & Gender Studies

## **COURSE SELECTION**

When selecting courses, students need to consider the progressive flow of courses based on placement test scores and course prerequisites. Students should contact their Academic Advisors for assistance.

### **Writing and Reading Prerequisite**

Students need to meet the English (**E**) and Reading (**R**) prerequisites in order to enroll in ENGL-101 Rhetoric and Composition, which is required for all degrees.

To meet the **E** prerequisite, a student must have achieved one of the following:

- An ACT score of 18 or higher
- A COMPASS writing score of 69 or higher
- A grade of "C" or better in ENGL097, ENGL097W, or ENGL098
- An SAT Evidence-based Reading and Writing score of 480 or higher
- A Writeplacer score of 5 or higher

*If the **E** is not met, a student must enroll in either ENGL098 Integrated College Reading and Writing Skills, or, if **R** is met, ENGL097W College Writing Skills Workshop and a designated section of ENGL101.*

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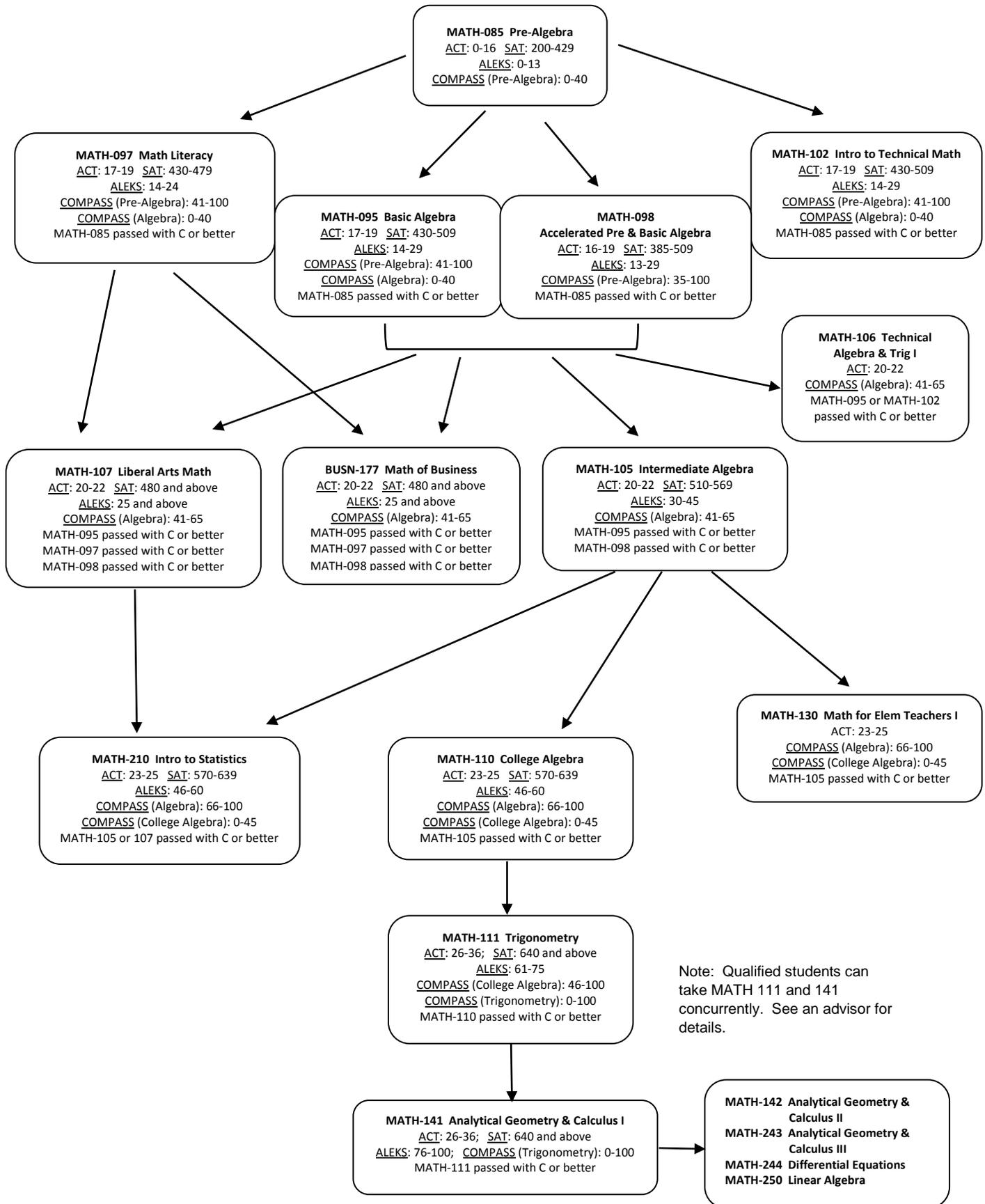
To meet the **R** prerequisite, a student must have achieved one of the following:

- An ACT score of 18 or higher
- A COMPASS reading score of 78 or higher
- A grade of "C" or better in ENGL077 or ENGL098
- An SAT Evidence-based Reading and Writing score of 480 or higher
- An Accuplacer score of 245 or higher

*If the **R** is not met, a student must enroll in ENGL098.*



# Math Flow Chart

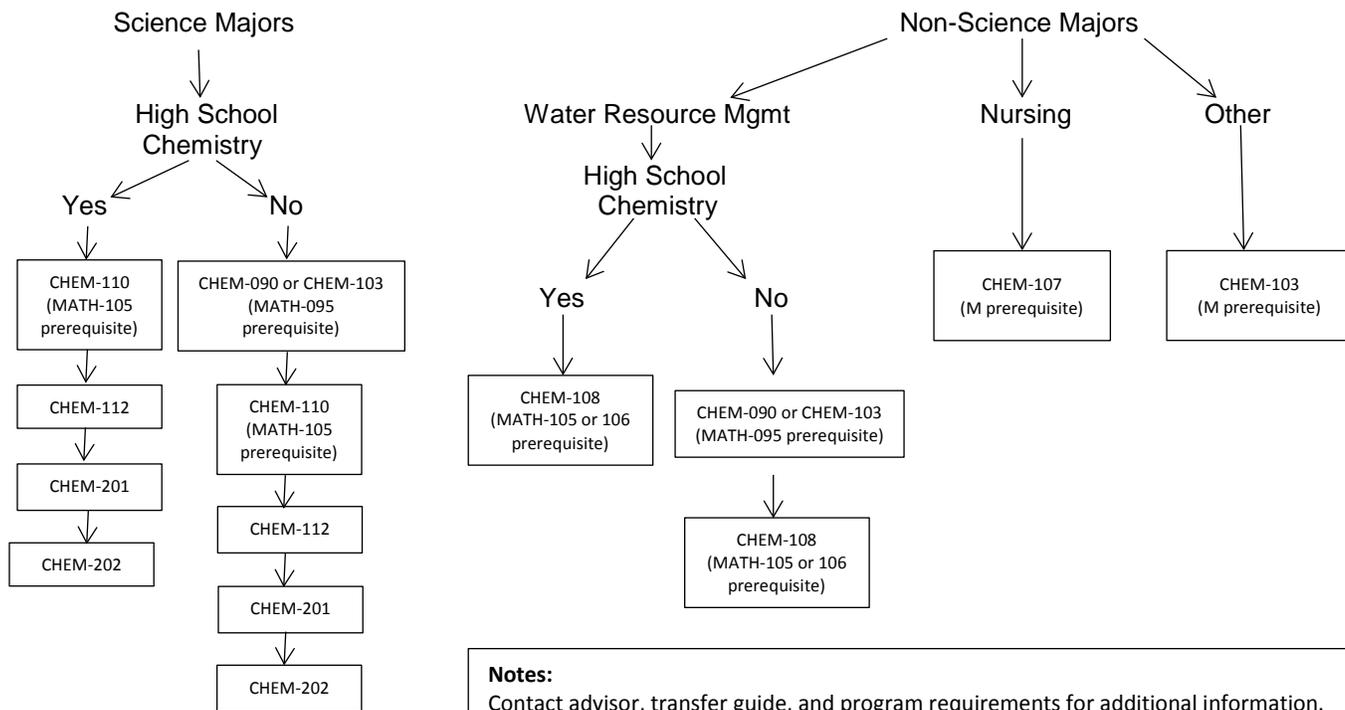


Note: Qualified students can take MATH 111 and 141 concurrently. See an advisor for details.

## Science Flow Charts

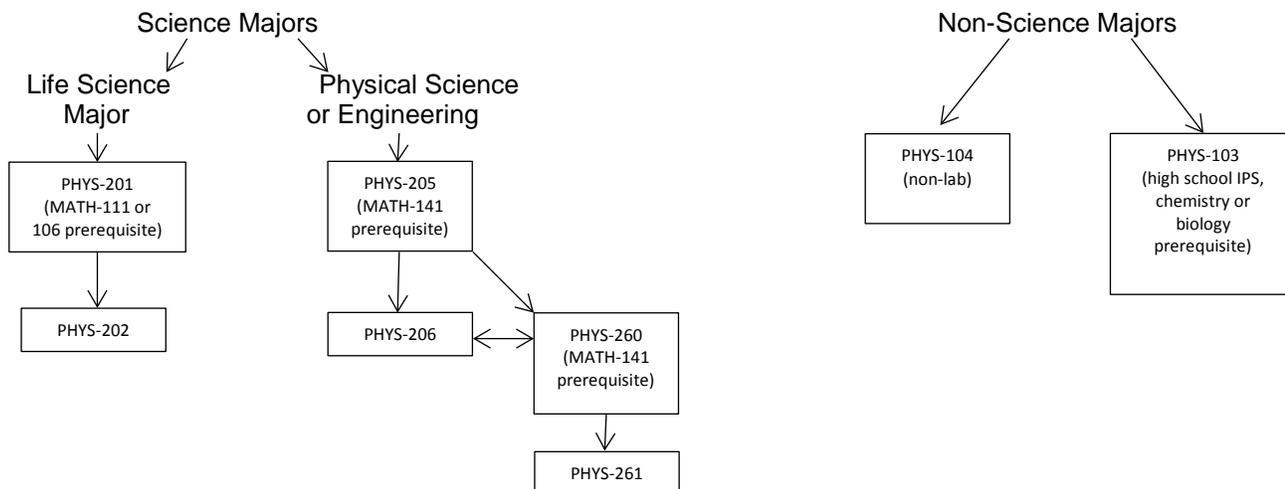
Students need to work with their Academic Advisors to determine which science courses to take. Prerequisites for science are based on high school courses taken; E, M, and R prerequisites; and specific course prerequisites. These flow charts show the basic sequence of science courses.

### CHEMISTRY



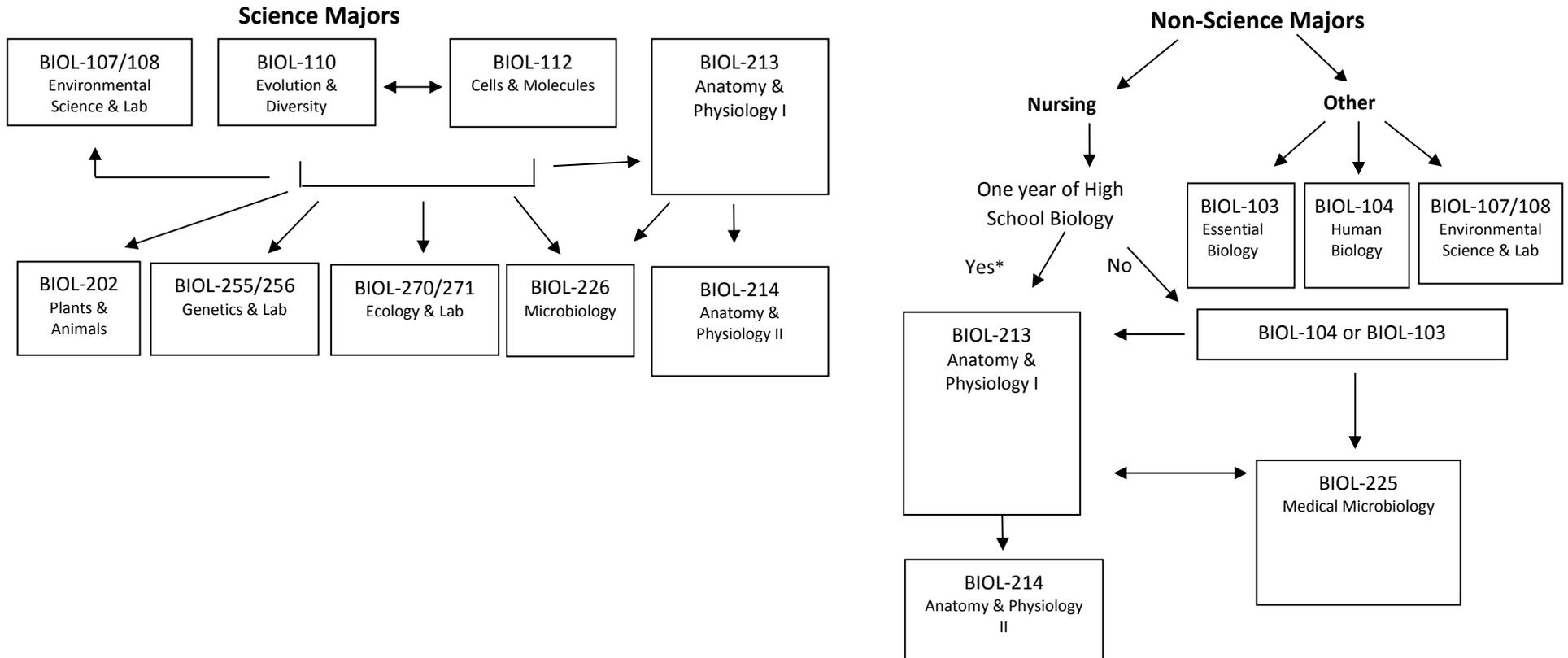
**Notes:**  
 Contact advisor, transfer guide, and program requirements for additional information. Some engineering majors may take CHEM-108 instead of CHEM-110. Contact advisor for specifics.  
 Water Resource Management students planning to transfer to a University should take CHEM-110/112 instead of CHEM-108.  
 Non-science majors are welcome to take any of the courses listed under Science Majors on the chart if they meet the prerequisites.

### PHYSICS



## BIOLOGY

Students that did not take biology in High School or feel that they need a review prior to taking a college level biology course are advised to take BIOL-090 before taking any of the courses listed below.



**Notes:**

Contact advisor, transfer guide, and program requirements for additional information

BIOL-112 may be taken before BIOL-110, but it is recommended that BIOL-110 is taken first

BIOL-103 can be used as a prerequisite for BIOL-202, BIOL-213/214, BIOL-255/256, and BIOL-270/271 instead of BIOL-110 & BIOL-112

BIOL-104 can be used as a prerequisite for BIOL-213/214 instead of BIOL-110 & BIOL-112

Non-science majors are welcome to take any of the courses listed under Science Majors on the chart

\*Many students benefit from a 100 level biology course before BIOL-213

# General Transfer Information

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## **GENERAL TRANSFER INFORMATION**

Bay de Noc Community College's transfer programs are designed to prepare students for successful admission to other colleges and universities for completion of their baccalaureate degrees. Bay College students successfully transfer to universities all across the country. To assist students in selecting appropriate classes, transfer guides and course equivalency information is available online through the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) website and the individual websites of many Michigan colleges and universities. Bay College's Director of Transfer & Student Advising and faculty advisors can help students in this selection process.

Transfer students need to answer four important questions: What, Where, When, and How?

### **What?**

The first step is to decide on your career goals and program of study. It is important to establish your long-term goals as soon as possible because WHAT you study may influence WHERE you transfer and WHEN it is best to go there. Bay College offers interest and personality testing to help with these decisions. See Student Services for assistance in interpreting these instruments. Many resources are available online. Faculty advisors are another resource; they have expertise in their individual fields.

### **Where?**

Choosing a college or university depends on many factors: location, size, cost, reputation, and degree offerings are a few. Does the school offer the program suitable for your chosen career? Does it offer scholarships and other financial aid for transfer students? Are there quotas, waiting lists or other limitations for admission to your selected program? Is housing available on or off campus? You may not be able to find an institution that has everything you desire, so prioritize your needs. What is most important? Explore and visit college campuses. See the Director of Transfer & Student Advising or your faculty advisor for assistance with these questions.

### **When?**

Find out the deadlines to apply for admission and financial aid. Some programs will require that you also apply to a particular department, school or college within the university. Consider whether or not you should complete your associate's degree and the Michigan Transfer Agreement (MTA) before you transfer to your chosen university. Some programs have lower division, introductory-level prerequisite courses for which Bay has no equivalent, so it may be to your advantage to transfer early. Other universities encourage or require both a Bay College degree and the MTA on your transcript to be eligible for certain programs or scholarships. WHEN you should transfer will depend on your individual circumstances and should be discussed with the Director of Transfer & Student Advising, your faculty advisor, and your transfer institution.

### **How?**

All institutions have required application forms for admission, financial aid and housing. There are also deadlines and application fees. These forms and information on deadlines and fees are available online at the university's website.

## **BE PREPARED TO TRANSFER**

1. Meet with the Bay College Director of Transfer & Student Advising or your faculty advisor. Discuss your transfer plan, associate degree requirements, general education, the Michigan Transfer Agreement (MTA), and transferability of courses. Plan early to be sure you take Bay courses that will transfer in your chosen program.
2. Evaluate colleges and decide early. Investigate entrance and degree requirements for baccalaureate colleges and universities. Consider location, cost, size, culture and program options. Meet with representatives of various institutions when they visit Bay College. Schedule a visit and tour university campuses early. Choose a college or university that best fits your needs.
3. Seek advising. Obtain a copy of the Transfer Guide for the program you intend to pursue. These are available on the transfer college/university website. Contact the transfer school's Admissions Office, and speak with an advisor specializing in transfer. Visit the school's website. Determine application procedures for admission, financial aid and housing.

4. Apply early. Complete your applications for admission, financial aid and housing. Send necessary documents including official transcripts from Bay College and any other colleges you may have attended, ACT scores, AP or CLEP scores, and high school transcript as required.
5. Visit the college or university. Meet with an admissions counselor and/or advisor in your major area. Take a campus tour with a student ambassador.

## **MICHIGAN TRANSFER AGREEMENT**

The Michigan Transfer Agreement (MTA) is an agreement between all public community colleges in Michigan and the 15 public universities in the state as well as a number of participating tribal and private colleges and universities in Michigan. It is designed to facilitate the transfer of general education requirements from community colleges to four-year colleges and universities. Students who complete the minimum 30 semester hours of college-level courses with a grade of 2.0 or higher in each course within the six specified categories will fulfill all or the majority of the student's lower-level general education requirements dependent on the requirements of their major. A transfer student must be eligible for admission to a receiving institution in order to benefit from MTA. The MTA is applicable to all students enrolling in a Michigan community college for the first time beginning Fall 2014 and supersedes the MACRAO Transfer Agreement. Students may meet the requirements of the MTA as a stand-alone package.

### **Coursework**

The 30 semester hours of coursework needed to meet the Michigan Transfer Agreement are:

- One course in English Composition
- A second course in English Composition OR one course in Communications
- Two courses in Natural Science from two different disciplines; including one with a laboratory experience
- One course in Mathematics: Quantitative Reasoning, College Algebra or Statistics
- Two courses in Social Behavioral Science from two different disciplines
- Two courses in the Humanities and Fine Arts from two different disciplines; excluding studio and performance courses

A student completing this program will have "Michigan Transfer Agreement Satisfied" on his/her transcript.

**All courses used to satisfy MTA must have a grade of "C" or better.**

### **MACRAO Resources for Transfer Students**

Resources available from the MACRAO website ([www.macrao.org](http://www.macrao.org)) include:

- Links to Michigan college and university homepages;
- Links to institutions with online admissions applications;
- Links to transfer guides and course equivalencies;
- The Michigan Uniform Undergraduate Guest Student Application;
- Dates of Transfer Fairs in Michigan; and
- A link to the Michigan Transfer Network, a MACRAO-sponsored site where students can search for transfer equivalency information. [www.michigantransfERNETWORK.org](http://www.michigantransfERNETWORK.org)

# Transfer Programs

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## ABOUT THE ASSOCIATE IN ARTS AND ASSOCIATE IN SCIENCE TRANSFER DEGREES

The Associate in Arts (AA) and Associate in Science (AS) Transfer Degrees are designed for students who wish to transfer to a four-year college or university. In addition to preparation for transfer, these degrees provide students with the Michigan Transfer Agreement for general education. Students should work closely with an academic advisor to select courses needed for their intended major at the four-year university they plan to attend.

A student may choose to work toward and receive the AA or AS degree without transferring to another institution.

Associate degrees representing the first two years of a four-year program have been designed for successful transfer to senior colleges and universities. Transfer guides are available on university websites for the following interest areas. Students will be assigned an academic advisor based on these interest areas. Students will not earn a degree in an interest area; rather they will earn the corresponding Associate in Arts or Associate in Science degree.

## Transfer Areas of Interest

### Associate in Arts (AA)

- Anthropology
- Art, Art and Design
- Athletic Training
- Automotive Engineer Technology
- Automotive Management
- Communication
- Computer Science
- Construction Management
- Early Childhood Education
- Education
  - Elementary
  - Secondary
  - Special
- Engineering Management
- Engineering Technology
  - Electrical
  - Industrial
  - Manufacturing
  - Mechanical
- English
- Entertainment/Sports
  - Promotion
- Environmental
  - Health/Safety/Management
- Fire Science
- Geography
- Geology
- History
- Information Systems
- International Relations
- Journalism
- Law, Pre-Professional
- Legal Studies
- Liberal Arts
- Mathematics
- Music

### Associate in Arts (AA) (cont'd)

- Nursing
- Philosophy
- Political Science
- Psychology
- Public Administration
- Public Relations
- Recreational Management
- Social Work
- Sociology
- Speech Communication
- Surveying
- Theater
- Welding
- Women's & Gender Studies

### AA – Art & Design

#### AA - Business Administration

- Accounting
- Business
- Business Administration
- Business Management
- Computer Information Systems
- Economics/Finance
- Health Care Administration
- Hospitality & Tourism Management
- Human Resource Management
- Management
- Management Information Systems
- Marketing

#### AA - Criminal Justice

- Law Enforcement
- Corrections
- Homeland Security

#### AA - Network Administrator

- Computer Network & Systems
- Network Computing

### Associate in Science (AS)

- Architecture
- Biology
- Botany
- Chemistry
- Forensic Chemistry
- Physics
- Zoology

#### AS - Pre-Engineering

- Chemical
- Civil
- Computer
- Electrical
- Mechanical
- Paper

#### AS-Pre-Biotechnology

- Biochemistry
- Biotechnology
- Genetics
- Molecular Biology

#### AS - Pre-Natural Resources

- Ecology
- Environmental Science
- Fisheries & Wildlife Management
- Forestry
- Natural Resources

#### AS - Pre-Professional Health

- Dentistry
- Medicine
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Veterinary Medicine

## **ARTICULATION AGREEMENTS**

The College has formal articulation agreements which provide a value-added component to a traditional transfer guide. These articulated agreements allow for students to have a seamless admission into their chosen transfer degrees.

Bay College has formal agreements with the following colleges and universities:

Davenport University—Grand Rapids, Michigan  
Finlandia University – Hancock, Michigan  
Kennebec Valley Community College – Fairfield, Maine  
Lake Superior State University – Sault Ste. Marie, Michigan  
Michigan State University – East Lansing, Michigan  
Michigan Technological University – Houghton, Michigan  
Northern Michigan University – Marquette, Michigan  
Palmer College of Chiropractic – Davenport, Iowa

Articulation agreements/Transfer Guides have been established between the following Michigan Community Colleges and Bay College for entry into our A.A.S. in Water Resource Management:

Alpena Community College  
Glen Oaks Community College  
Gogebic Community College  
Grand Rapids Community College  
Kalamazoo Valley Community College  
Kellogg Community College  
Lake Michigan College  
Lansing Community College  
Macomb Community College  
Montcalm Community College  
Muskegon Community College  
North Central Michigan College  
St. Claire County Community College  
West Shore Community College

## **UNIVERSITY PROGRAMS AT BAY DE NOC COMMUNITY COLLEGE**

The following university programs offer courses toward completion of their degrees on Bay College's campus. See the university representative for program information.

### **LAKE SUPERIOR STATE UNIVERSITY**

Regional Center Director: Heidi Berg  
Joseph Heirman University Center (Office 924)  
(906) 217-4123

### **BACHELOR DEGREES**

Bachelor of Science Accounting  
Bachelor of Science Business Administration-Entrepreneurship  
Bachelor of Science Business Administration-Generalist w/a declared minor  
Bachelor of Science Business Administration-Generalist w/a declared minor(West Campus)  
Bachelor of Science Business Administration-International Business  
Bachelor of Science Business Administration-Management  
Bachelor of Science Criminal Justice-Corrections with Law Enforcement Minor  
Bachelor of Science Criminal Justice-Generalist  
Bachelor of Science Criminal Justice-Law Enforcement Certification  
Bachelor of Science Early Childhood Education with Sociology Minor  
Bachelor of Science Early Childhood Education ZS Endorsement  
Bachelor of Science/Bachelor of Arts-General Studies  
Bachelor of Science Nursing Completion

# Associate in Arts

2017-2018 Catalog

Award Granted Upon Completion: Associate in Arts

Credits/Contacts Required: **60/60**

Major code: 01/103

CIP Code: 240101

## Description

The Associate in Arts degree is primarily designed for students who wish to transfer to a four-year college or university. Students should work closely with an academic advisor to select courses needed for their intended major at the four-year institution they plan to attend. In addition to preparation for transfer, this program is designed to provide students with a strong general education background. Students who receive an Associate in Arts degree will also satisfy the Michigan Transfer Agreement requirements. <sup>o</sup>

### General Education Requirements – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective ENGL-102 or 145; COMM-103, 104, or 120	3
MATH-xxx	Mathematics Elective * MATH-107, 110, or 210	4
XXXX-xxx	Natural Science **	7-10
XXXX-xxx	Social & Behavioral Science *** Electives	6
XXXX-xxx	Humanities Electives ***	6

 This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher. A *minimum* of 30 general education (GE) credits must be taken. If the minimum number of credits from each GE category is taken, an additional course will be necessary from any of the five general education categories.

### Degree Requirements

Electives: Students are advised to follow the transfer guide for their particular program and institution and to consult with their advisor. Min 30

- \* Mathematics courses higher than noted above may substitute for the MTA requirement.
- \*\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. See advisor for details.
- \*\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
MATH-xxx	Mathematics Elective	4/4
XXXX-xxx	Natural Science with lab	4-5/4-7
XXXX-xxx	Social & Behavioral Science Elective ***	3/3
		<b>14-15/14-17</b>
<b>Second Semester</b>		
XXXX-xxx	Communication Elective	3/3
XXXX-xxx	Humanities Elective ***	3/3
XXXX-xxx	Social & Behavioral Science Elective ***	3/3
XXXX-xxx	Electives	6/6
		<b>15/15</b>
<b>Third Semester</b>		
XXXX-xxx	Natural Science Elective	4-5/4-7
XXXX-xxx	Humanities Elective ***	3/3
XXXX-xxx	Electives	9/9
		<b>16-17/16-19</b>
<b>Fourth Semester</b>		
XXXX-xxx	Electives	15/15
		<b>15/15</b>

# Associate in Arts

2017-2018 Catalog

## Concentration in Art & Design

Award Granted Upon Completion: Associate in Arts

Credits/Contacts Required: 60/60

Major code: 01/113

CIP Code: 240101

### Description

The Associate in Arts in Art and Design is primarily designed for students who wish to transfer to a four-year college or university. Students should work closely with an academic advisor to select courses needed for their intended major at the four-year institution they plan to attend. In addition to preparation for transfer, this program is designed to provide students with a strong general education background as well as a concentration in Painting/Drawing; Photography; Digital Cinema; Graphic Design or Ceramics/Sculpture. Students who receive an Associate in Arts in Art and Design degree will also satisfy the Michigan Transfer Agreement Requirements. ☼

#### General Education Requirements \* – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-xxx	Mathematics Elective**	4
	Math 107, 110, or 210	
XXXX-xxx	Natural Science ***	7-10
ARTS 204	Art History to 1300	3
XXXX-xxx	Humanities Elective	3
XXXX-xxx	Social/Behavioral #	6

☼ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher. A *minimum* of 30 general education (GE) credits must be taken. If the minimum number of credits from each GE category is taken, an additional course will be necessary from any of the five general education categories.

#### Requirements – Min 30 credits

		<u>Cr</u>
ARTS 101	Introduction to Art Design	4
ARTS 175	Introduction to Visual Structures	4
ARTS 207	Art History 1300 to Present	3
XXXX-xxx	Fine Art Electives +	12
XXXX-xxx	Approved Electives ##	7

#### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ARTS 175	Introduction to Visual Structures	4/4
ARTS-xxx	Fine Art Elective+	4/4
ENGL-101	Rhetoric & Composition	3/3
MATH-xxx	Math Elective	4/4
		<b>15/15</b>
<b>Second Semester</b>		
ARTS-101	Introduction to Art Design	4/4
ARTS-xxx	Fine Arts Elective +	4/4
XXXX-xxx	Communications Elective	3/3
XXXX-xxx	Natural Science w/ Lab Elective	4-5/4-5
		<b>15-16/15-16</b>
<b>Third Semester</b>		
ARTS-204	Art History to 1300	3/3
ARTS-xxx	Fine Art Elective+	4/4
XXXX-xxx	Humanities Elective #	3/3
XXXX-xxx	Social/Behavioral Science Elective	3/3
XXXX-xxx	Approved Electives ##	4/4
		<b>17/17</b>
<b>Fourth Semester</b>		
ARTS-207	Art History 1300 to Present	3/3
XXXX-xxx	Natural Science Elective	4-5/4-5
XXXX-xxx	Social/Behavioral Science Elective	3/3
XXXX-xxx	Approved Elective ##	3-4/3-4
		<b>13/15-13/15</b>

\* It is in the student's best interest to review transfer guides which are available online at [www.macrao.org](http://www.macrao.org) for specific university and program requirements. Students should regularly consult with their four-year transfer university as well as their Bay College advisor prior to scheduling classes.

\*\* Math courses in this program require specific placement scores or prerequisite courses. Students not meeting prerequisites for their required courses may need to take more time and more credits to fulfill degree requirements.

\*\*\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. See advisor for details.

# Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA.

## The number of Approved Electives will be based on the degree requirements of 60 credits and the choices made for General Education courses.

+ Concentration Requirements: Painting and Drawing: ARTS 115, ARTS 120, ARTS 215, ARTS 220 Photography: ARTS 117, ARTS 217 Digital Cinema: ARTS 126, ARTS 226 Graphic Design: ARTS 118, ARTS 218 Ceramics and Sculpture: ARTS 130, ARTS 230, ARTS 125

# Associate in Arts

2017-2018 Catalog

## Concentration in Business Administration

Award Granted Upon Completion: Associate in Arts

Credits/Contacts Required: 60/60

Major code: 01/107

CIP Code: 240101

### Description

The Associate in Arts in Business Administration degree is designed for students who wish to transfer to a four-year college or university and major in the business fields of Accounting, Business Administration, Economics, Finance, Management, Marketing, and Human Resources. Students should work closely with their academic advisor to select the appropriate courses needed for their intended transfer institution. All students completing this Associate in Arts program will meet the Michigan Transfer Agreement (MTA) requirements listed in the catalog. ☺

### General Education Requirements \* – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-110	College Algebra ** -OR-	4-5
MATH-141	Analytical Geometry & Calc I **	
XXXX-xxx	Natural Science ***	7-10
ECON-131	Macroeconomics	3
XXXX-xxx	Social & Behavioral Science #	3
	Elective	
XXXX-xxx	Humanities Electives #	6

☺ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher. A *minimum* of 30 general education (GE) credits must be taken. If the minimum number of credits from each GE category is taken, an additional course will be necessary from any of the five general education categories.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-160	Introduction to Business	3/3
ECON-131	Macroeconomics	3/3
ENGL-101	Rhetoric & Composition	3/3
MATH-110	College Algebra ** -OR-	4-5/4-5
MATH-141	Analytical Geom & Calc I **	
		<b>13-14/13-14</b>
<b>Second Semester</b>		
ECON 132	Microeconomics	3/3
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Communication Elective	3/3
XXXX-xxx	Natural Sciences w/Lab Elective	4-5/5-7
		<b>14-15/15-17</b>
<b>Third Semester</b>		
ACCT-101	Accounting Principles I	4/4
XXXX-xxx	Humanities Elective #	3/3
XXXX-xxx	Approved Electives ##	6/6
XXXX-xxx	Social & Behavioral Sciences Elective #	3/3
		<b>16/16</b>
<b>Fourth Semester</b>		
ACCT-102	Accounting Principles II	4/4
BUSN-xxx	Approved BUSN Elective ###	3/3
XXXX-xxx	Natural Science Elective	4/4
XXXX-xxx	Humanities Elective #	3/3
XXXX-xxx	Approved Electives ##	3/3
		<b>17/17</b>

### Requirements – Min 30 credits

		<u>Cr</u>
ACCT-101	Accounting Principles I	4
ACCT-102	Accounting Principles II	4
BUSN-160	Introduction to Business	3
BUSN-xxx	Approved Business Elective ###	3
ECON-132	Microeconomics	3
MATH-210	Introduction to Statistics	4
XXXX-xxx	Approved Electives ##	9

- \* It is the student's best interest to review transfer guides which are available online at [www.macrao.org](http://www.macrao.org) for specific university and program requirements. Students should regularly consult with their four-year transfer university as well as their Bay College advisor prior to scheduling classes.
- \*\* Math courses in this program require specific placement scores or prerequisite courses. Students not meeting prerequisites for their required courses may need to take more time and more credits to fulfill degree requirements.
- \*\*\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. See advisor for details.
- # Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA.
- ## The number of Approved Electives will be based on the degree requirements of 60 credits and the choices made for General Education courses.
- ### The Approved Business Electives are BUSN-242, BUSN 250, and BUSN 253, based on transfer institution requirements. See Academic Advisor.

# Associate in Arts

2017-2018 Catalog

## Concentration in Criminal Justice

Award Granted Upon Completion: Associate in Arts

Credits/Contacts Required: 60/60

Major code: 01/105

CIP Code: 240101

### Description

The Associate in Arts in Criminal Justice degree is designed for students who wish to transfer to a four-year college or university and pursue a baccalaureate degree in criminal justice. In addition to preparation for transfer, this program provides students with a strong general education. Students who receive an Associate in Arts in Criminal Justice degree will also satisfy the Michigan Transfer Agreement listed in the catalog. ☪

#### General Education Requirements – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-xxx	Mathematics Elective *	4
	MATH-107, 110, or 210	
XXXX-xxx	Natural Science **	7-10
POLI-111	American Government	3
SOCY-151	Sociology	3
XXXX-xxx	Humanities Electives ***	6

#### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
CJUS-112	Introduction to Criminal Justice	4/4
SOCY-151	Sociology	3/3
XXXX-XXX	Humanities Elective ***	3/3
XXXX-xxx	Electives #	3/3
		<b>16/16</b>
<b>Second Semester</b>		
CJUS-212	Introduction to Law Enforcement	4/4
MATH-xxx	Mathematics Elective *	4/4
XXXX-XXX	Humanities Elective ***	3/3
XXXX-xxx	Natural Science **	4/4
		<b>15/15</b>
<b>Third Semester</b>		
CJUS-110	Introduction to Corrections	4/4
POLI-111	American Government	3/3
XXXX-xxx	Communication Elective	3/3
XXXX-xxx	Electives #	6/6
		<b>16/16</b>
<b>Fourth Semester</b>		
CJUS-213	The Criminal Court System	4/4
XXXX-xxx	Electives #	5/5
XXXX-xxx	Natural Science w/Lab Elective	4/5
		<b>13/14</b>

☪ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher. A *minimum* of 30 general education (GE) credits must be taken. If the minimum number of credits from each GE category is taken, an additional course will be necessary from any of the five general education categories.

#### Requirements – Min 30 credits

CJUS-110	Introduction to Corrections	4
CJUS-112	Introduction to Criminal Justice	4
CJUS-212	Introduction to Law Enforcement	4
CJUS-213	The Criminal Court System	4
XXXX-xxx	Electives #	14

\* Mathematics courses higher than noted above may substitute for the MTA requirement.

\*\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. See advisor for details.

\*\*\* Students must choose courses in Humanities from two different subject areas to meet MTA. See advisor for details.

# This program allows students to select areas of program emphasis in criminal justice such as law enforcement, corrections, public safety, homeland security, and criminal justice generalist.

It is **CRITICAL** that students see their advisor to make an academic plan for this degree. Not all courses are offered every semester.

**All Internships and Co-ops require that the student pass a criminal background check.**

# Associate in Arts

2017-2018 Catalog

## Concentration in Network Administration

Award Granted Upon Completion: Associate in Arts

Credits/Contacts Required: 65/67

Major code: 01/110

CIP Code: 240101

### Description

The Associate in Arts in Network Administration Degree is designed for students who wish to transfer to a four-year college or university and pursue a baccalaureate degree in computer networking. In addition to preparation for transfer, this program provides students with a strong general education background. Students who receive an Associate in Arts in Network Administration degree will also satisfy the Michigan Transfer Agreement listed in the catalog. ☼

#### General Education Requirements – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-110	College Algebra	4
XXXX-xxx	Natural Science *	7-10
XXXX-xxx	Social & Behavioral Science **	6
	Electives	
XXXX-xxx	Humanities Electives **	6

☼ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher. A *minimum* of 30 general education (GE) credits must be taken. If the minimum number of credits from each GE category is taken, an additional course will be necessary from any of the five general education categories.

#### Requirements – Min 35 credits

		<u>Cr / Ct</u>
CNSS-130	Introduction to Networks	4
CNSS-150	A + Computer Maintenance	4
CNSS-230	Introduction to Unix Using Linux	4
CNSS-231	Advanced Linux System Administration	4
CNSS-250	Windows Networking I	4
CNSS-251	Windows Networking II	4
CSCI-122	C++ Programming II	4
MATH-210	Introduction to Statistics	4
XXXX-xxx	Approved Elective	3

#### Approved Electives (Choose a minimum of 3 credits)

BUSN-160	Introduction to Business	3
BUSN-195	Business Communications	3
CIS-103	Visual Basic	4
CIS-140	Database Applications	3
CIS-210	Web Page Design & Structure	3
CNSS-220	Network Design	4
CNSS-260	Network Security	4
CNSS-272	CNSS Co-op Internship #	3
CSCI-121	C++ Programming I	3

#### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CNSS-130	Introduction to Networks	4/4
CNSS-150	A + Computer Maintenance	4/6
ENGL-101	Rhetoric & Composition	3/3
XXXX-xxx	Humanities Elective **	3/3
		<b>14/16</b>

<b>Second Semester</b>		
CNSS-230	Introduction to Unix Using Linux	4/4
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Communication Elective	3/3
XXXX-xxx	Natural Science Elective *	4/4
XXXX-xxx	Social & Behavioral Sciences Elective **	3/3
		<b>18/18</b>

<b>Third Semester</b>		
CNSS-231	Advanced Linux System Admin	4/4
CNSS-250	Windows Networking I	4/4
MATH-110	College Algebra	4/4
XXXX-xxx	Approved Elective	3/3
XXXX-xxx	Humanities Elective **	3/3
		<b>18/18</b>

<b>Fourth Semester</b>		
CNSS-251	Windows Networking II	4/4
CSCI-122	C++ Programming II	4/4
XXXX-xxx	Natural Science Elective *	4/4
XXXX-xxx	Social & Behavioral Science Elective **	3/3
		<b>15/15</b>

# Students must pass a criminal background check for Co-op courses.

\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. See advisor for details.

\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.

# Associate in Science

2017-2018 Catalog

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: 60/63

Major code: 02/220

CIP Code: 240101

## Description

The Associate in Science Degree is primarily designed for students who wish to transfer to a four-year college or university. In addition to preparation for transfer, this program provides students with a strong general education background. Students should work closely with an academic advisor to select courses needed for their intended major. All students earning the Associate in Science Degree will meet the Michigan Transfer Agreement requirements listed in the catalog. ☼

### General Education Requirements – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective ENGL-102 or 145; COMM-103, 104, or 120 #	3
MATH-xxx	Mathematics Elective: MATH-110 or higher	3-5
XXXX-xxx	Natural Science *	8-10
XXXX-xxx	Social & Behavioral Science ** Electives	6
XXXX-xxx	Humanities Electives **	6

### Degree Requirements – Min 30 credits

		<u>Cr</u>
Mathematics	Minimum of 8 credits at MATH-110 level or higher including General Education Math	3-5
Natural Science *	Minimum of 16 credits including General Education	6-8
Approved Electives ***	Minimum of 19 credits	19

☼ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill MTA must have a grade of "C" or higher.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
MATH-xxx	Mathematics MATH-110 or higher	4-5/4-5
XXXX-xxx	Natural Science *	4-5/5-7
XXXX-xxx	Humanities **	3/3
		<b>14-16/15-18</b>
<b>Second Semester</b>		
XXXX-xxx	Communication Elective #	3/3
MATH-xxx	Mathematics	3-5/3-5
XXXX-xxx	Natural Science *	4-5/5-7
XXXX-xxx	Social & Behavioral Science **	3/3
XXXX-xxx	Approved Elective ***	3-5/3-5
		<b>16-21/17-23</b>
<b>Third Semester</b>		
XXXX-xxx	Natural Science *	3-5/5-7
XXXX-xxx	Social & Behavioral Science **	3/3
XXXX-xxx	Approved Elective ***	4-5/4-5
XXXX-xxx	Approved Elective ***	4-5/4-5
		<b>14-18/16-20</b>
<b>Fourth Semester</b>		
XXXX-xxx	Natural Science *	4-5/5-7
XXXX-xxx	Humanities **	3/3
XXXX-xxx	Approved Elective ***	4-5/4-5
XXXX-xxx	Approved Elective ***	4-5/4-5
		<b>15-18/16-20</b>

# Students should contact their transfer institution for specific requirements. ENGL-145 is generally recommended.

\* Students must choose two natural sciences from two different subject areas to meet the MTA requirement, and at least one must be a lab science course. Choose from any BIOL course (excluding BIOL-090, 225, and 276), any CHEM course (excluding CHEM-090), GEOG-110, or any PHYS course.

\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.

\*\*\* Actual courses and sequence vary with specialization. Electives courses should be selected based on the transfer institution's requirements which are available at [www.macrao.org](http://www.macrao.org) for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling classes.

# Associate in Science

2017-2018 Catalog

## Concentration in Pre-Engineering

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: **63/67**

Major code: 02/225

CIP Code: 240101

### Description

The Pre-Engineering Degree is designed for students who wish to transfer to a four-year college or university to obtain a degree in engineering. In addition to preparation for transfer, this program provides students with a strong general education background. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements listed in the catalog. ☉

#### General Education Requirements – Min 33 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective *	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-141	Analytical Geometry & Calc I	5
CHEM-110	General Chemistry I ** -OR-	5
CHEM-108	Technical Chemistry **	
PHYS-205	Engineering Physics I	5
XXXX-xxx	Social & Behavioral Science Electives ***	6
XXXX-xxx	Humanities Electives ***	6

☉ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

#### Requirements – Min 30 credits

		<u>Cr</u>
MATH-142	Analytical Geometry & Calculus II	5
MATH-243	Analytical Geometry & Calculus III	5
MATH-244	Differential Equations	3
MATH-250	Linear Algebra	3
PHYS-206	Engineering Physics II @ -OR-	5
CHEM-112	General Chemistry II @	
XXXX-xxx	Natural Science Elective #	3-5
XXXX-xxx	Computer Science -OR-	
	Engineering Course ##	3-4
XXXX-xxx	Approved Electives ###	3-4

#### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CHEM-110	General Chemistry ** -OR-	
CHEM-108	Technical Chemistry I **	5/7
ENGL-101	Rhetoric & Composition	3/3
MATH-141	Analytical Geometry & Calculus I	5/5
XXXX-xxx	Computer Science -OR-	
	Engineering Course ##	3-4/3-4
<b>16-17/18-19</b>		
<b>Second Semester</b>		
CHEM-112	General Chemistry II @ -OR-	
XXXX-xxx	Approved Elective ###	3-5/3-7
MATH-142	Analytical Geometry & Calculus II	5/5
PHYS-205	Engineering Physics I	5/6
XXXX-xxx	Communication Elective *	3/3
<b>16-18/17-21</b>		
<b>Third Semester</b>		
MATH-243	Analytical Geometry & Calculus III	5/5
PHYS-206	Engineering Physics II @ -OR-	
XXXX-xxx	Natural Science Elective #	3-5/3-6
XXXX-xxx	Social/Behavioral Science***	3/3
XXXX-xxx	Humanities ***	3/3
<b>14-16/14-17</b>		
<b>Fourth Semester</b>		
MATH-244	Differential Equations	3/3
MATH-250	Linear Algebra	3/3
XXXX-xxx	Social/Behavioral Science ***	3/3
XXXX-xxx	Humanities ***	3/3
XXXX-xxx	Natural Science Elective # -OR-	3-5/3-6
	Approved Elective ###	
<b>15-17/15-18</b>		

- \* Students should contact their transfer institution for specific requirements. ENGL-145 is generally recommended.
- \*\* Students should contact their transfer institution to determine which chemistry course is required for their engineering degree.
- \*\*\* Students must choose courses in Social & Behavioral Sciences and in Humanities from two different subject areas to meet MTA. See advisor for details.
- # Choose one natural science from BIOL-110, 112, 213, 214, 255, 256; CHEM-112, 201, 202; PHYS-206, 260, or 261.
- ## Select a computer science or engineering course from the following: CSCI-121, CSCI-122, CADD-115, CADD-120, or CADD-235.
- ### Students should contact their transfer institution to determine an appropriate approved elective for their degree.
- @ Students should contact their transfer institution to determine if PHYS-206 or CHEM-112 is required for their engineering degree. Some engineering degrees will require both PHYS-206 and CHEM-112.

# Associate in Science

2017-2018 Catalog

## Concentration in Pre-Molecular Biotechnology

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: 61/75

Major code: 02/226

CIP Code: 240101

### Description

The Pre-Molecular Biotechnology Degree is designed for students who want to transfer and complete degrees in Biochemistry, Biotechnology, Genetics, and Molecular Biology. Specific requirements for transfer to the Biotechnology Degree Program at Ferris State University are noted below. In addition for preparation for transfer, this program provides students with a strong general education background. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements. ☼

#### General Education Requirements – Min 32 credits @

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective *	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-141	Analytical Geometry & Calc I	5
BIOL-110	Evolution & Diversity	4
CHEM-110	General Chemistry I	5
PSYC-201	Intro to Psychology	3
XXXX-xxx	Social & Behavioral Science Electives **	3
	(ECON-131 & 132 are desirable electives for the Biotechnology degree.)	
XXXX-xxx	Humanities Electives **	6

☼ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

#### Requirements – Min 29 credits @

		<u>Cr</u>
BIOL-112	Cells and Molecules	4
CHEM-112	General Chemistry II	5
CHEM-201	Organic Chemistry I	4
CHEM-202	Organic Chemistry II	4
MATH-210	Introduction to Statistics	4
PHYS-201	Elements of Physics I ***	4
PHYS-202	Elements of Physics II ***	4

#### Suggested Sequences per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BIOL-110	Evolution & Diversity	4/6
CHEM-110	General Chemistry I	5/7
ENGL-101	Rhetoric & Composition	3/3
MATH-141	Analytical Geometry & Calculus I	5/5
		<b>17/21</b>
<b>Second Semester</b>		
BIOL-112	Cells & Molecules	4/6
CHEM-112	General Chemistry II	5/7
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Communication Elective *	3/3
		<b>16/20</b>
<b>Third Semester</b>		
CHEM-201	Organic Chemistry I	4/6
PHYS-201	Elements of Physics I ***	4/5
PSYC-201	Introduction to Psychology	3/3
XXXX-xxx	Humanities **	3/3
		<b>14/17</b>
<b>Fourth Semester</b>		
CHEM-202	Organic Chemistry II	4/6
PHYS-202	Elements of Physics II ***	4/5
XXXX-xxx	Social & Behavioral Science **	3/3
XXXX-xxx	Humanities **	3/3
		<b>14/17</b>

@ Many courses require specific placement scores or prerequisite courses. Students not meeting the prerequisites for their required courses may need to take more time and more credits to fulfill the degree requirements.

\* Students should contact their transfer institution for specific requirements. ENGL-145 is generally recommended.

\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.

\*\*\* Students may take PHYS-205 & PHYS-206 as an alternative.

**NOTES** Actual courses and sequence vary with transfer institution and undergraduate degree specialization. It is in the student's best interest to review transfer guides for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling courses.

- Students transferring to FSU Biotechnology program only need to complete MATH-110 & MATH-111, and are not required to complete PHYS-202.
- Due to credit transfer limits, students transferring to NMU are advised to complete either Organic Chemistry or Physics at NMU. These students would be better served by completing the general AS degree.

# Associate in Science

2017-2018 Catalog

## Concentration in Pre-Natural Resources

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: **60/69**

Major code: 02/227

CIP Code: 240101

### Description

The Pre-Natural Resources Degree is designed for students who wish to transfer to a four-year college or university to obtain an undergraduate degree in Ecology, Ecosystem Management, Environmental Biology, Environmental Conservation, Environmental Science, Fisheries and Wildlife, Forestry, Natural Resources Management, Outdoor Recreation, or Wildlife Management. The most common transfer institutions for students in Pre-Natural Resources include Lake Superior State University (LSSU), Michigan Technological University (MTU), Michigan State University (MSU), and University of Wisconsin Stevens Point (UWSP). In addition to preparation for transfer, this program provides students with a strong general education background. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements listed in the catalog. 🔄

#### General Education Requirements – Min 32 credits @

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective *	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-141	Analytical Geometry & Calc I	5
BIOL-107	Environmental Science	3
BIOL-108	Environmental Science Lab	1
CHEM-110	General Chemistry I **	5
ECON-131	Macroeconomics -OR-	3
ECON-132	Microeconomics	
XXXX-xxx	Social Behavioral Science Elective ***	3
XXXX-xxx	Humanities Electives ***	6

🔄 This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

#### Requirements – Min 28 credits @

		<u>Cr</u>
BIOL-110	Evolution and Diversity	4
BIOL-112	Cells and Molecules	4
MATH-210	Introduction to Statistics	4
XXXX-xxx	Natural Science Elective	4-5
XXXX-xxx	Approved Electives #	12

#### Suggested Sequences per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BIOL-110	Evolution & Diversity	4/6
CHEM-110	General Chemistry I **	5/7
ENGL-101	Rhetoric & Composition	3/3
MATH-141	Analytical Geometry & Calculus I	5/5
		<b>17/21</b>
<b>Second Semester</b>		
BIOL-112	Cells & Molecules	4/6
ECON-131	Macroeconomics -OR-	3/3
ECON-132	Microeconomics	
XXXX-xxx	Communication Elective *	3/3
XXXX-xxx	Approved Elective #	3-5/3-7
XXXX-xxx	Approved Elective #	3-5/3-7
		<b>16-20/18-26</b>
<b>Third Semester</b>		
BIOL-107	Environmental Science	3/3
BIOL-108	Environmental Science Lab	1/2
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Humanities ***	3/3
XXXX-xxx	Approved Elective #	3-5/3-7
		<b>14-16/15-19</b>
<b>Fourth Semester</b>		
XXXX-xxx	Natural Science Elective	4-5/6-7
XXXX-xxx	Humanities ***	3/3
XXXX-xxx	Social & Behavioral Science ***	3/3
XXXX-xxx	Approved Elective #	3-5/3-7
		<b>13-16/15-20</b>

**NOTE** Actual courses and sequence vary with transfer institution and undergraduate degree specialization. It is in the student's best interest to review transfer guides for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling courses.

- @ Many courses require specific placement scores or prerequisite courses. Students not meeting the prerequisites for their required courses may need to take more time and more credits to fulfill the degree requirements.
- \* Students should contact their transfer institution for specific requirements. ENGL-145 is generally recommended.
- \*\* Students transferring to MTU may select CHEM-108 rather than CHEM-110.
- \*\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.
- # Electives selected in consultation with transfer institutions may include BIOL-202, COMM-103, COMM-104, CHEM-112, CHEM-108, MATH-142, and PHED courses.

# Associate in Science

2017-2018 Catalog

## Concentration in Pre-Professional Health

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: 60/68

Major code: 02/228

CIP Code: 240101

### Description

The Pre-Professional Health Degree is designed for students who wish to transfer to a four-year college or university in a Professional Health Program. Specific program areas include Clinical Lab Science, Diagnostic Genetics, Pre-Medicine, Pre-Veterinary Medicine, Pre-Pharmacy, Pre-Optometry, Occupational Therapy, and Pre-Physical Therapy. Generally these professions will require post-baccalaureate studies. Further, in many cases, undergraduate majors in many health disciplines do not exist. Students must still select and complete an undergraduate major in addition to their pre-professional studies. While it is traditional for pre-health professional students to complete an undergraduate major in biology, professional schools, especially medical schools, often value a more diverse undergraduate education. For this reason, students who major in secondary education, communications, social and behavioral sciences or other liberal arts disciplines while completing their pre-professional courses are often at a competitive advantage for admission to professional school. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements listed in the catalog. \*

### General Education Requirements – Min 32 credits @

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective *	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-141	Analytical Geometry & Calculus I	5
BIOL-110	Evolution & Diversity	4
CHEM-110	General Chemistry I	5
PSYC-201	Introduction to Psychology	3
XXXX-xxx	Social & Behavioral Science Electives **	3
XXXX-xxx	Humanities Electives **	6

### Suggested Sequences per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BIOL-110	Evolution & Diversity	4/6
CHEM-110	General Chemistry I	5/7
ENGL-101	Rhetoric & Composition	3/3
MATH-141	Analytical Geometry & Calculus I	5/5
		<b>17/21</b>
<b>Second Semester</b>		
BIOL-112	Cells & Molecules	4/6
CHEM-112	General Chemistry II	5/7
PSYC-201	Introduction to Psychology	3/3
XXXX-xxx	Communication Elective *	3/3
		<b>15/19</b>
<b>Third Semester</b>		
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Humanities **	3/3
XXXX-xxx	Math Science Elective ***	3-5/3-6
XXXX-xxx	Math Science Elective ***	3-5/3-6
		<b>13-17/13-19</b>

\* This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

### Requirements – Min 28 credits @

		<u>Cr</u>
BIOL-112	Cells and Molecules	4
CHEM-112	General Chemistry II	5
MATH-210	Introduction to Statistics	4
XXXX-xxx	Math & Science Electives ***	12
XXXX-xxx	Approved Elective	3

<b>Fourth Semester</b>		
XXXX-xxx	Humanities **	3/3
XXXX-xxx	Math Science Elective ***	3-5/3-6
XXXX-xxx	Math Science Elective ***	3-5/3-6
XXXX-xxx	Social & Behavioral Science **	3/3
XXXX-xxx	Approved Elective	3/3
		<b>15-19/15-21</b>

**NOTE** Actual courses and sequence vary with transfer institution and undergraduate degree specialization. It is in the student's best interest to review transfer guides for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling courses.

@ Many courses require specific placement scores or prerequisite courses. Students not meeting the prerequisites for their required courses may need to take more time and more credits to fulfill the degree requirements.

\* Students should contact their transfer institution for specific requirements. ENGL-145 is generally recommended.

\*\* Students must choose courses in Social & Behavioral Sciences and Humanities from two different subject areas to meet MTA. See advisor for details.

\*\*\* Math/Science electives include BIOL-202, 213, 214, 225, 226, 231, 232, 255, 256, 270, 271, 272-275, CHEM-201, 202, MATH-142, PHYS-201, 202, 205, and 206. Students who are transferring where physical education is required may use up to three elective credits. Some students may be advised to take COMM-103 or 104 in place of a Math/Science elective.

# Occupational and Technology Programs

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## ABOUT THE ASSOCIATE IN APPLIED SCIENCE DEGREE

The Associate in Applied Science Degree combines general education with coursework designed to prepare students for immediate entry into the workforce upon graduation. Bay College's approved General Education Model ensures that the curriculum of all occupational programs has a balance of technical, vocational, and liberal arts study courses.

Although some students pursuing the AAS degree may transfer to a four-year college or university to pursue a baccalaureate degree, many AAS courses are not granted transfer equivalency credit at Michigan universities. Students considering the AAS degree who may wish to transfer should see an advisor.

For information about the Student Learning Outcomes for each of the programs below, please go to [www.baycollege.edu/slos](http://www.baycollege.edu/slos).

### Associate in Applied Science Degrees

Accounting  
Automotive Technology  
Business  
Computer Information Systems: Programming/User Support  
Computer Information Systems: Software/Network Support  
Computer Network Systems & Security  
Corrections  
Early Childhood Care & Education  
Environmental Management  
General Studies  
Geographic Information Systems  
Human Services  
Law Enforcement  
Marketing  
Mechatronic and Robotic Systems  
Nursing  
Office Information Systems: Administrative Assistant  
Office Information Systems: Medical Office Specialist  
Paramedic  
Water Resource Management  
Water Resource Management 1+1 (Transfer)

# Accounting

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Accounting

Credits/Contacts Required: 62/62

Major code: 03/302

CIP Code: 520301

## Description

The Associate in Applied Science in Accounting degree is designed to enable students to gain entry level employment in the accounting field. This degree is designed for students who do not wish to transfer to a four-year college or university.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business *	3
XXXX-xxx	Social/Behavioral Science or Humanities Elective	3
XXXX-xxx	General Education Electives	6

### Requirements – Min 47 credits \*\*

		<u>Cr</u>
ACCT-101	Accounting Principles I	4
ACCT-102	Accounting Principles II	4
ACCT-105	Accounting with Computers	3
ACCT-110	Payroll Accounting	3
ACCT-210	Intermediate Accounting I	4
ACCT-211	Intermediate Accounting II	4
ACCT-215	Cost Accounting	4
BUSN-195	Business Communications	3
CIS-101	Computer Concepts & Applications	4
CIS-122	Microsoft Access	1
CIS-130	Spreadsheet Applications	3
OIS-150	Word Processing Applications	4
XXXX-xxx	Co-Op/Internship or Approved Elective #	6

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ACCT-101	Accounting Principles I	4/4
BUSN-177	Mathematics of Business *	3/3
CIS-101	Computer Concepts & Apps	4/4
CIS-122	Microsoft Access	1/1
ENGL-101	Rhetoric & Composition	3/3
		<b>15/15</b>
<b>Second Semester</b>		
ACCT-102	Accounting Principles II	4/4
ACCT-110	Payroll Accounting	3/3
BUSN-195	Business Communications	3/3
CIS-130	Spreadsheet Applications	3/3
OIS-150	Word Processing Applications	4/4
		<b>17/17</b>
<b>Third Semester</b>		
ACCT-105	Accounting with Computers	3/3
ACCT-210	Intermediate Accounting I	4/4
ACCT-215	Cost Accounting	4/4
XXXX-xxx	Social & Behavioral Sciences/ Humanities Elective	3/3
		<b>14/14</b>
<b>Fourth Semester</b>		
ACCT-211	Intermediate Accounting II	4/4
XXXX-xxx	Co-op/Internship <b>-AND/OR-</b> Approved Elective #	6/6
XXXX-xxx	General Education Electives	6/6
		<b>16/16</b>

\* Other mathematics credits may be accepted in the circumstances where a student has changed programs.

\*\* Keyboarding skills are necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

# Students are encouraged to complete a Co-Op/Internship to fulfill program elective credits. All Co-Op/Internships must be approved by an advisor and **may require that the student pass a criminal background check**. Students may also fulfill this requirement by completing 6 credits from any combination of ACCT, BUSN, CIS, ECON, HMG, or OIS courses. ACCT-100 will be accepted as an elective only if taken prior to successful completion of ACCT-101.

# Automotive Technology

2017-2018 Catalog

Award Granted Upon Completion:

Associate in Applied Science in Automotive Technology

Credits/Contacts Required: **68/95**

Major code: 03/308

CIP Code: 470604

## Description

The Automotive Technology program is designed to provide a combination of theoretical and practical skills to enable graduates to move rapidly in their chosen occupational field. Students learn to apply automotive operating principles and to diagnosis malfunctions in automotive systems. The program emphasizes the development of skills in service, repairs, and diagnostic procedures. With state regulations, certification of auto technicians is required by law. The program provides an opportunity for students to prepare themselves for technician certification exams. The automotive industry has experienced a great deal of growth during the past one hundred years. It continues to remain a young, healthy, and a growing industry. Great opportunities await alert students seeking a profitable and challenging career in the future. Year by year, as automotive systems become more sophisticated, there is an increasing demand for trained technicians who have the knowledge and skill to service the ever changing and improved products. Equipment: Students are required to provide their own safety equipment, work clothes, and basic hand tool set. A list is provided. Estimated cost is between \$1,000 and \$2,500. Special student discounts are available. A quality set of hand tools is required by the second week of the semester for each course of the program, co-op, and future employability. Note: A valid driver's license is required for co-op. Types of Jobs: Dealership service technicians, assistant or parts department manager, skilled jobs in automotive manufacturing, service equipment representative, rebuilding shop assembler, and repair shop operator.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
COMM-103	Interpersonal Communication <b>-OR-</b>	3
COMM-104	Public Speaking *	
BUSN-177	Mathematics of Business <b>-OR-</b>	3-4
MATH-106	Technical Algebra & Trig I *	
XXXX-xxx	Social/Behavioral Science or Humanities Elective	3
XXXX-xxx	General Education Electives	2-3

### Requirements – Min 53 credits \*\*

		<u>Cr</u>
AUTO-100	Automotive Engines	5
AUTO-110	Automotive Brakes	5
AUTO-120	Automotive Electrical I	5
AUTO-130	Automotive Standard Transmissions & Powertrains	4
AUTO-140	Automotive Engine Performance I	5
AUTO-150	Automotive Suspension & Steering	5
AUTO-200	Automotive Engine Performance II	5
AUTO-220	Automotive Electrical II	5
AUTO-230	Automatic Transmissions	5
AUTO-270	Automotive HVAC Systems	3
AUTO-272	Automotive Service Co-op **	6

**Internships and Co-ops may require that the student pass a criminal background check.**

\* Transfer students should choose MATH-110 or higher, and COMM-104.

\*\* Qualified students may be placed into pre-approved training work sites that are compatible with their career objectives, geographic preferences, and qualifications. A valid driver's license and the approved hand tool set are required for co-op. Students need to request instructor's approval and complete pre-registration documentation prior to final registration. Please see College Co-op Handbook.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
AUTO-110	Automotive Brakes	5/8
AUTO-120	Automotive Electrical I	5/8
AUTO-100	Automotive Engines <b>-OR-</b>	4-5/6-8
AUTO-130	Auto Stand Trans & Powertrains	
AUTO-140	Auto Engine Performance I	5/8
<b>19-20/30-32</b>		
<b>Second Semester</b>		
AUTO-150	Automotive Steering & Suspension	5/8
AUTO-200	Automotive Engine Performance II	5/8
AUTO-220	Automotive Electrical II	5/8
AUTO-230	Automatic Transmissions <b>-OR-</b>	3-5/4-8
AUTO-270	Automotive HVAC Systems	
<b>18-20/28-32</b>		
<b>Third Semester</b>		
AUTO-100	Automotive Engines <b>-OR-</b>	4-5/6-8
AUTO-130	Auto Stand Trans & Powertrains	
BUSN-177	Mathematics of Business	3-4/3-4
MATH-106	<b>-OR-</b> Tech Algebra & Trig I *	
COMM-103	Interpersonal Communication	
COMM-104	<b>-OR-</b> Public Speaking	3/3
ENGL-101	Rhetoric & Composition	3/3
<b>13-15/15-18</b>		
<b>Fourth Semester</b>		
AUTO-230	Automatic Trans <b>-OR-</b>	
AUTO-270	Automotive HVAC Systems	
AUTO-272	Automotive Service Co-op **	6/6
XXXX-xxx	Social & Behavioral Sciences/ Humanities Elective	3/3
XXXX-xxx	General Education Requirement	3-4/3-4
<b>15-18/16-21</b>		

# Business

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Business

Credits/Contacts Required: **60/60**

Major code: 03/310

CIP Code: 520101

## Description

The Business program is designed to enable students to gain entry level employment in business related fields. The program covers the basic working knowledge of general business theory and practice, the use of current technology appropriate to business operations, and the ability to communicate effectively in a business environment. This program is available online.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business *	3
ECON-131	Macroeconomics <b>-OR-</b>	3
ECON-132	Microeconomics	
XXXX-xxx	General Education Electives	6

### Requirements – Min 45 credits \*\*

		<u>Cr</u>
ACCT-100	Practical Accounting <b>-OR-</b>	4
ACCT-101	Accounting Principles I	
BUSN-160	Introduction to Business	3
BUSN-195	Business Communications	3
BUSN-242	Principles of Management	3
BUSN-250	Business Law I	3
BUSN-253	Marketing	3
BUSN-260	International Business <sup>@</sup>	3
CIS-101	Computer Concepts & Applications	4
CIS/OIS-xxx	CIS <b>-OR-</b> OIS Elective(s)	7
ECON-120	Personal Finance	3
XXXX-xxx	Business Electives or Co-Op #,***	9

#	Internships and Co-ops may require that the student pass a criminal background check.
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### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-160	Introduction to Business	3/3
BUSN-177	Mathematics of Business *	3/3
CIS-101	Computer Concepts & Apps	4/4
ENGL-101	Rhetoric & Composition	3/3
		<b>13/13</b>
<b>Second Semester</b>		
ACCT-100	Practical Accounting <b>-OR-</b>	
ACCT-101	Accounting Principles I	4/4
BUSN-195	Business Communications	3/3
ECON-120	Personal Finance	3/3
XXXX-xxx	CIS <b>-OR-</b> OIS Elective(s)	3/3
XXXX-xxx	General Education Elective	3/3
		<b>16/16</b>
<b>Third Semester</b>		
BUSN-242	Principles of Management	3/3
BUSN-250	Business Law I	3/3
BUSN-253	Marketing	3/3
XXXX-xxx	Business Elective ***	3/3
XXXX-xxx	General Education Elective	3/3
		<b>15/15</b>
<b>Fourth Semester</b>		
BUSN-260	International Business <sup>@</sup>	3/3
ECON-131	Macroeconomics <b>-OR-</b>	
ECON-132	Microeconomics	3/3
XXXX-xxx	Business Electives <b>-OR-</b>	6/6
	Co-op ***	
XXXX-xxx	CIS <b>-OR-</b> OIS Elective(s)	4/4
		<b>16/16</b>

\* Other mathematics credits may be accepted in the circumstances where a student has changed programs.

\*\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

\*\*\* Business Electives can be chosen from any ACCT, BUSN, CIS, ECON, or OIS courses. Advisor assistance with choosing electives is highly recommended. All Co-op credits must be approved by an advisor.

@ It is highly recommended to complete this course during the fourth/last semester of course work.

# Computer Information Systems: Programming & User Support

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in CIS:  
Programming & User Support

Credits/Contacts Required: 60/60

Major code: 03/326

CIP Code: 151202

## Description

The CIS: Programming & User Support program prepares students for careers in end-user support and programming. Graduates will have the potential for employment in the areas of program development, software training, database support, web page development, and Help Desk Support.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business +	3
XXXX-xxx	Social & Behavioral Science or Humanities Elective	3
XXXX-xxx	General Education Electives	6

### Requirements – Min 45 credits \*

		<u>Cr</u>
BUSN-195	Business Communications	3
CIS-101	Computer Concepts & Applications	4
CIS-103	Visual Basic <b>-OR-</b>	3-4
CSCI-121	C++ Programming I	
CIS-115	Using Microsoft Windows	3
CIS-120	Microsoft Word	1
CIS-123	Microsoft PowerPoint	1
CIS-130	Spreadsheet Applications	3
CIS-135	Introduction to Cybersecurity	2
CIS-140	Database Applications	3
CIS-203	Visual Basic for Applications <b>-OR-</b>	3
CIS-240	Advanced Database Applications	
CIS-210	Web Page Design & Structure	3
CIS-220	Java Programming	4
CIS-235	Mobile App Development	3
XXXX-xxx	Approved Electives **	8-9

#### \*\* Approved Electives (Choose minimum 8-9 credits)

BUSN-160	Introduction to Business	3
BUSN-203	Management Information Systems	3
CIS-103	Visual Basic <b>-OR-</b>	3-4
CSCI-121	C++ Programming I	
CIS 125	Business Technology Tools	2
CIS-203	Visual Basic for Applications <b>-OR-</b>	3
CIS-240	Advanced Database Applications	
CIS-215	Web Publishing	3
CIS-271	CIS Internship/Co-op ***	1
CIS-272	CIS Internship/Co-op ***	2
CIS-273	CIS Internship/Co-op ***	3
CNSS-101	Emerging Technologies	3
CNSS-150	A+ Computer Maintenance	4
CSCI-110	Introduction to Programming #	3
CSCI-122	C++ Programming II	4

Internships and Co-ops may require that the student pass a criminal background check.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-177	Mathematics of Business +	3/3
CIS-101	Computer Concepts & Applications	4/4
CIS-115	Using Microsoft Windows	3/3
CIS-120	Microsoft Word	1/1
CIS-123	Microsoft PowerPoint	1/1
ENGL-101	Rhetoric & Composition	3/3
		<hr/>
		<b>15/15</b>

<b>Second Semester</b>		
CIS-103	Visual Basic <b>-OR-</b>	3-4/3-4
CSCI-121	C++ Programming I	
CIS-130	Spreadsheet Applications	3/3
CIS-135	Introduction to Cybersecurity	2/2
BUSN-195	Business Communications	3/3
XXXX-xxx	Social & Behavioral Science/ Humanities Elective	3/3
		<hr/>
		<b>14-15/14-15</b>

<b>Third Semester</b>		
CIS 140	Database Applications	3/3
CIS-210	Web Page Design & Structure	3/3
CIS-220	Java Programming	4/4
XXXX-xxx	Approved Elective	3/3
XXXX-xxx	General Education Elective	3/3
		<hr/>
		<b>16/16</b>

<b>Fourth Semester</b>		
CIS-235	Mobile App Development	3/3
CIS-203	Visual Basic for Apps <b>-OR-</b>	3/3
CIS-240	Advanced Database Apps	
XXXX-xxx	General Education Elective	3/3
XXXX-xxx	Approved Electives **	5-6/5-6
		<hr/>
		<b>14-15/14-15</b>

\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate proficiency by successfully passing the keyboarding test available through Testing Services. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

\*\*\* Internship/Co-op credits (maximum 3) may be used as elective credits. All internship/co-ops must be approved by an advisor.

+ MATH-105, MATH 107, MATH 110, or MATH 210 also accepted.

# CSCI-110 will be accepted as an elective only if taken prior to successful completion of CIS-103, CIS-210, CIS-220, CIS-235, and CSCI-121.

# Computer Information Systems: Software/Network Support

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in CIS: Software/Network Support  
Credits/Contacts Required: **60/62**

Major code: 03/323

CIP Code: 110301

## Description

The CIS: Software/Network Support program is designed to prepare individuals for positions providing technical support, assistance, trouble-shooting, and training to end computer users for software, hardware, and networks. The program emphasizes problem solving using current software packages, hardware configurations, operating systems, and networks. A graduate of the program will have the potential for employment in the areas of Help Desk Support, network support, software training, and web page development.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business +	3
XXXX-xxx	Social & Behavioral Science or Humanities Elective	3
XXXX-xxx	General Education Electives	6

### Requirements – Min 45 credits \*

		<u>Cr</u>
CIS-101	Computer Concepts & Applications	4
CIS-115	Using Microsoft Windows	3
CIS-120	Microsoft Word	1
CIS-123	Microsoft PowerPoint	1
CIS-130	Spreadsheet Applications	3
CIS-135	Introduction to Cybersecurity	2
CIS-140	Database Applications	3
CIS-210	Web Page Design & Structure	3
CNSS-130	Introduction to Networks	4
CNSS-150	A+ Computer Maintenance	4
CNSS-230	Introduction to Unix Using Linux	4
CNSS-250	Windows Networking I	4
CNSS-251	Windows Networking II	4
XXXX-xxx	Approved Electives **	5

#### \*\* Approved Electives (Choose minimum 5 credits)

BUSN-195	Business Communications	3
BUSN-203	Management Information Systems	3
CIS-103	Visual Basic – OR –	3-4
CSCI-121	C++ Programming I	
CIS-125	Business Technology Tools	2
CIS-203	Visual Basic for Applications	3
CIS-215	Web Publishing	3
CIS-240	Advanced Database Apps	3
CIS-271	CIS Internship/Co-op	1
CIS-272	CIS Internship/Co-op	2
CIS-273	CIS Internship/Co-op	3
CNSS-101	Emerging Technologies	4
CNSS-115	Cyber Ethics	3
CNSS-220	Network Design	4

Internships and Co-ops may require that the student pass a criminal background check.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CIS-101	Computer Concepts & Applications	4/4
CIS-115	Using Microsoft Windows	3/3
CIS-120	Microsoft Word	1/1
CIS-123	Microsoft PowerPoint	1/1
CNSS-130	Introduction to Networks	4/4
ENGL-101	Rhetoric & Composition	3/3
		<b>16/16</b>

<b>Second Semester</b>		
BUSN-177	Mathematics of Business +	3/3
CIS-135	Intro to Cybersecurity	2/2
CIS-130	Spreadsheet Applications	3/3
CNSS-150	A+ Computer Maintenance	4/6
XXXX-xxx	Social & Behavioral Sciences/ Humanities Elective	3/3
		<b>15/17</b>

<b>Third Semester</b>		
CIS-140	Database Applications	3/3
CIS-210	Web Page Design & Structure	3/3
CNSS-250	Windows Networking I	4/4
XXXX-xxx	Approved Electives **	2/2
XXXX-xxx	General Education Electives	3/3
		<b>15/15</b>

<b>Fourth Semester</b>		
CNSS-230	Introduction to Unix Using Linux	4/4
CNSS-251	Windows Networking II	4/4
XXXX-xxx	Approved Electives **	3/3
XXXX-xxx	General Education Electives	3/3
		<b>14/14</b>

- \* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate proficiency by successfully passing the keyboarding test available through Testing Services. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.
- \*\* Internship/Co-op credits (maximum 3) may be used as elective credits. All internship/co-ops must be approved by an advisor.
- + MATH-105, MATH-107, MATH-110 or MATH-210 also accepted

# Computer Network Systems & Security 2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Computer Network

Credits/Contacts Required: **65/67**

Systems and Security

Major code: 03/324

CIP Code: 151202

## Description

As more information is made available on networks, protecting that data becomes even more important. This intense "hands-on" program prepares graduates for employment in information technology fields ranging from PC bench technician, routed network technician, wireless network technician, security specialist, computer forensics specialist, network administrator, web server/database administrator or management information specialist, or information technology administrator positions. A Co-op/Internship is required. Graduates of this program receive certification as an Information Security Professional from the Committee on National Security Systems.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business -OR- MATH-105 -OR- MATH-107	3-4
XXXX-xxx	Social/Behavioral Science or Humanities Elective	3
XXXX-xxx	General Education Electives *	5-6

### Requirements – Min 50 credits

		<u>Cr</u>
CNSS-105	Digital Logical Principles	4
CNSS-130	Introduction to Networks	4
CNSS-150	A plus Computer Maintenance	4
CNSS-220	Network Design	4
CNSS-225	Wireless Systems	4
CNSS-230	Introduction to Unix Using Linux	4
CNSS-231	Advanced Linux System Admin	4
CNSS-250	Windows Networking I	4
CNSS-251	Windows Networking II	4
CNSS-260	Network Security	4
CNSS-272	Co-op	3
XXXX-xxx	Approved Electives **	7
<b>** Approved Electives (Choose minimum 7 credits)</b>		
CIS-101	Computer Concepts	4
CIS-103	Visual Basic	4
CIS-115	Using Microsoft Windows	3
CIS-12x	Microsoft Courses (CIS-120,121,122,123)	1
CIS-220	JAVA Programming	4
CIS-235	Mobile App Development	3
CNSS-110	Information Security Principles	3
CNSS-115	Cyber Ethics	3
CNSS-245	SQL Server	4
CNSS-262	Web Server Administration	4
CNSS-273	CNSS Co-op Internship #	1-8
CNSS-274	CNSS Co-op Internship	1-8
CNSS-284	Special Topics	4
CSCI-110	Introduction to Programming	3

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CNSS-105	Digital Logic Principles	4/4
CNSS-130	Introduction to Networks	4/4
CNSS-150	A plus Computer Maintenance	4/6
ENGL-101	Rhetoric & Composition	3/3
		<b>15/17</b>
<b>Second Semester</b>		
CNSS-220	Network Design	4/4
CNSS-230	Introduction to Unix Using Linux	4/4
BUSN-177	Math of Business -OR-	3-4/3-4
MATH-105	Intermediate Algebra -OR-	
MATH-107	Liberal Arts Math	
XXXX-xxx	Approved Elective **	3/3
XXXX-xxx	Social & Behavioral Sciences/ Humanities Elective	3/3
		<b>17-18/17-18</b>
<b>Third Semester</b>		
CNSS-231	Adv Linux System Admin	4/4
CNSS-250	Windows Networking I	4/4
CNSS-272	Co-op/Internship (3 cr minimum)	3/3
XXXX-xxx	Approved Elective **	4/4
XXXX-xxx	General Education Elective *	3/3
		<b>18/18</b>
<b>Fourth Semester</b>		
CNSS-225	Wireless Systems	4/4
CNSS-251	Windows Networking II	4/4
CNSS-260	Network Security	4/4
XXXX-xxx	General Education Elective *	3/3
		<b>15/15</b>

\* Additional courses as needed to reach 15 credits and 5 courses.

#	Internships and Co-ops require that the student pass a criminal background check.
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# Corrections

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Corrections

Credits/Contacts Required: **62/62**

Major code: 03/330

CIP Code: 430102

## Description

The Associate in Applied Science in Corrections degree combines general education with coursework designed to prepare criminal justice students interested in a career in Corrections for immediate entry into the workforce upon graduation. This program provides a balance of technical, vocational, and liberal study courses.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
COMM-103	Interpersonal Communication	3
COMM-104	<b>-OR-</b> Public Speaking	
BUSN-177	Math of Business <b>-OR-</b> any approved math or natural science	3-4
POLI-111	American Government <b>-OR-</b>	3
POLI-262	State & Local Government	
SOCY-151	Sociology	3

### Requirements – Min 47 credits

		<u>Cr</u>
CJUS-110	Introduction to Corrections	4
CJUS-112	Introduction to Criminal Justice	4
CJUS-114	Criminal Justice Report Writing	2
CJUS-120	Legal Issues in Corrections	3
CJUS-210	Client Growth & Development	4
CJUS-212	Introduction to Law Enforcement	4
CJUS-213	The Criminal Court System	4
CJUS-220	Client Relations in Corrections	3
CJUS-230	Corrections Institutions/Facilities	3
CJUS-240	Ethics in Criminal Justice	4
PSYC-201	Introduction to Psychology	3
SOCY-103	Cultural Diversity	3
XXXX-xxx	Approved Electives *	6
<b>* Approved Electives (Choose a minimum of 6 credits)</b>		
CJUS-272	Criminal Justice Internship	1-4
COMM-201	Mass Communication & Popular Culture	3
PSYC-280	Abnormal Psychology	3
SOCY-205	Juvenile Delinquency and Justice	3
SOCY-207	Social Problems	3
SPAN-101	Spanish I	3
SPAN-112	Spanish for Criminal Justice Majors I	4
SPAN-114	Spanish for Criminal Justice Majors II	4

\* Or any elective approved by Program Coordinator

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CJUS-110	Introduction to Corrections	4/4
CJUS-112	Introduction to Criminal Justice	4/4
ENGL-101	Rhetoric & Composition	3/3
PSYC-201	Introduction to Psychology	3/3
		<b>14/14</b>
<b>Second Semester</b>		
CJUS-114	Criminal Justice Report Writing	2/2
CJUS-210	Client Growth & Development	4/4
CJUS-212	Introduction to Law Enforcement	4/4
POLI-111	American Government <b>-OR-</b>	3/3
POLI-262	State & Local Government	
SOCY-151	Sociology	3/3
		<b>16/16</b>
<b>Third Semester</b>		
CJUS-120	Legal Issues in Corrections	3/3
CJUS-220	Client Relations in Corrections	3/3
CJUS-240	Criminal Justice Ethics	4/4
COMM-103	Interpersonal Comm. <b>-OR-</b>	3/3
COMM-104	Public Speaking	
SOCY-103	Cultural Diversity	3/3
		<b>16/16</b>
<b>Fourth Semester</b>		
BUSN-177	Mathematics of Business <b>-OR-</b> Any approved Math or Science	3-4/3-4
CJUS-213	The Criminal Court System	4/4
CJUS-230	Corrections Institutions/Facilities	3/3
XXXX-xxx	Approved Elective *	6/6
		<b>16-17/16-17</b>

It is **CRITICAL** that students see their advisor to make an academic plan for this certificate. Not all courses are offered every semester.

## **Early Childhood Care & Education 2017-2018 Catalog**

Award Granted Upon Completion: Associate in Applied Science in Early Childhood

Credits/Contacts Required: **60/61**

Major code: 03/335

Care & Education

CIP Code: 190708

### **Description**

This degree program prepares students to work in a variety of early childhood care and education programs (centers and family child care homes) as a lead teacher, teacher assistant, or program director. The curriculum is aligned with the AAS degree teacher preparation standards issued by the National Association for the Education of Young Children and the Council for Professional Recognition (CDA). Students will plan and implement quality, developmentally appropriate programs for children ages 0-8 in support of physical, cognitive, and social emotional growth and development. Graduates of the associate degree program meet the educational requirements for child care center program directors as required by the Michigan Child Care Center Licensing Regulations. The associate degree provides the foundation for advanced study at colleges and universities in early childhood care and education. A one-year, 30 credit certificate, 90 hour practicum is available. AAS Degree requirements include 3 semesters/300 hours of practicum placement in early childhood settings.

**Continued on Next Page**

## Early Childhood Care & Education - continued

### General Education Requirements – Min 15 credits

	<u>Cr</u>
ENGL-101 Rhetoric & Composition	3
Math or Choose from *	3-4
Science BUSN-177 Math of Business	
Elective * <b>-OR-</b>	
MATH-107 Liberal Arts Math	
<b>-OR-</b>	
BIOL-107 Environmental Science lecture <b>-&amp;-</b>	
BIOL-108 Environmental Science lab	
<b>OR</b>	
BIOL-104 Human Biology	
PSYC-201 Introduction to Psychology	3
SOCY-151 Sociology <b>-OR-</b>	3
SOCY-208 Marriage & the Family	
COMM-103 Interpersonal Communication	3

### Requirements – Min 45 credits

	<u>Cr</u>
CHLD-101 Foundations in Early Childhood Care & Education	3
CHLD-103 Child Development (Ages 3-8) **	3
CHLD-110 Health, Safety, & Nutrition for Early Childhood	3
CHLD-120 Child Guidance	3
CHLD-125 Infant/Toddler Development & Programming **	3
CHLD-130 Curriculum Development & Assessment I **	3
CHLD-135 Introduction to Children's Literature	3
CHLD-200 Inclusion in Early Childhood Programs	3
CHLD-230 Curriculum Development & Assessment II **	6
CHLD-240 Administration in Early Childhood Programs	3
CHLD-272 Practicum in Early Childhood Development **	6
HLTH-147 First Aid/BLS for Non Healthcare Providers	1
MUSC-101 Music for Early Childhood Educators	1
XX-xxx Approved Electives ***	4
<b>*** Approved Electives (choose minimum of 4 cr.)</b>	
ACCT-100 Practical Accounting	4
ARTS-198 Theater Practicum I	1
BUSN-160 Introduction to Business	3
CIS-120 Microsoft Word	1
ENGL-112 Sign Language I	3
FYE-101 First Year Experience	3
PHED-141 Physical Fitness: Wellness Approach	2
PHED-144 Effective Stress Management	2
PSYC-220 Developmental Psychology	3
SOCY-151 Sociology <b>-OR-</b>	3
SOCY-208 Marriage & the Family	
SPAN-101 Spanish 1	3

### Suggested Sequences Per Semester

	<u>Cr / Ct</u>
<b>First Semester</b>	
CHLD-101 Foundations in Early Childhood Care & Education	3/3
CHLD-103 Child Development (Ages 3-8) **	3/3
CHLD-110 Health, Safety, & Nutrition	3/3
ENGL-101 Rhetoric & Composition	3/3
XXXX-xxx Approved Elective ***	4/4
	<b>16/16</b>
<b>Second Semester</b>	
CHLD-120 Child Guidance	3/3
CHLD-125 Infant/Toddler Development & Programming **	3/3
CHLD-130 Curriculum Development & Assessment I **	3/3
CHLD-135 Introduction to Children's Literature	3/3
SOCY-151 Sociology <b>-OR-</b>	
SOCY-208 Marriage & the Family	3/3
HLTH-147 First Aid/BLS for Non-Healthcare	1/1
	<b>16/16</b>
<b>Third Semester</b>	
CHLD-200 Inclusion in Early Childhood Programs	3/3
CHLD-230 Curriculum Development & Assessment II **	6/6
COMM-103 Interpersonal Communication	3/3
MUSC-101 Music for Early Childhood Educators	1/1
PSYC-201 Introduction to Psychology	3/3
	<b>16/16</b>
<b>Fourth Semester</b>	
XXXX-xxx Math/Science Elective	3-4/3-5
CHLD-240 Administration in Early Childhood Programs	3/3
CHLD-272 Practicum in Early Childhood Development **	6/6
	<b>12-13/12-14</b>

\* Those who plan to transfer should take MATH-107 or one of the biology courses.

\*\* Courses that require observation and practicum require a physical, TB test, and criminal history check prior to the first day of class. Forms are found on Bay's website, Early Childhood Care & Education link.

# Environmental Management

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Environmental

Credits/Contacts Required: **64/70**

Major code: 03/344

Management

CIP Code: 150507

## Description

The Environmental Management Program is designed for preparing students to become environmental managers, bio field and laboratory managers, consultants, engineering managers, environmental planners, and business managers. This program will provide students with a strong background in a variety of environmental operations, field and laboratory equipment use, environmental law, business management, and real work experience in the environmental and business world.

### General Education Requirements – Min 18 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
COMM-103	Interpersonal Communication	3
COMM-104	<b>-OR-</b> Public Speaking	
MATH-106	Technical Algebra & Trig I * <b>-OR-</b>	4
MATH-105	Intermediate Algebra *	
CHEM-110	General Chemistry I <b>-OR-</b> **	5
CHEM-108	Technical Chemistry	
POLI-111	American Government <b>-OR-</b>	3
POLI-262	State & Local Government	

### Requirements – Min 46 credits \*\*

		<u>Cr</u>
ACCT-101	Accounting Principles I	4
BIOL-107	Environmental Science	3
BIOL-108	Environmental Science Lab	1
BUSN-160	Introduction to Business	3
BUSN-242	Principles of Management	3
ECON-132	Microeconomics	3
WATR-110	Wastewater Operations & Mgmt	4
WATR-120	Water Operations & Management	4
WATR-220	Industrial Solutions	3
WATR-230	Aquatic Evaluations & Bacteriology	3
WATR-240	Environmental Analysis	5
WATR-260	Current Issues for Managers	3
WATR-270	Water in Motion	4
WATR-274	Environmental Internship	3

#### Optional

CHEM-112	General Chemistry II **	5
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### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BIOL-107	Environmental Science	3/3
BIOL-108	Environmental Science Lab	1/2
ENGL-101	Rhetoric & Composition	3/3
MATH-105	Intermediate Algebra * <b>-OR-</b>	4/4
MATH-106	Technical Algebra *	
WATR-110	Wastewater Operations & Management	4/4
		<hr/>
		<b>15/16</b>
<b>Second Semester</b>		
CHEM-108	Technical Chemistry **	5/7
POLI-111	American Government <b>-OR-</b>	3/3
POLI-262	State & Local Government	
WATR-120	Water Operations & Mgmt	4/4
WATR-260	Current Issues for Managers	3/3
		<hr/>
		<b>15/17</b>
<b>Third Semester</b>		
ACCT-101	Accounting Principles I	4/4
BUSN-160	Introduction to Business	3/3
ECON-132	Microeconomics	3/3
WATR-240	Environmental Analysis	5/7
WATR-270	Water in Motion	4/4
		<hr/>
		<b>19/21</b>
<b>Fourth Semester</b>		
BUSN-242	Principles of Management	3/3
COMM-103	Interpersonal Comm <b>-OR-</b>	3-4/3-4
COMM-104	Public Speaking	
WATR-220	Industrial Solutions	3/3
WATR-230	Aquatic Eval & Bacteriology	3/4
WATR-274	Environmental Internship	3/3
		<hr/>
		<b>15-16/16-17</b>

- \* MATH-106 and MATH-105 do not satisfy MTA.
  - Transfer students should take MATH-110 which will fulfill the math requirement.
  - Bay has an articulation agreement with LSSU whereby courses in this program transfer into a B.S. of Environmental Management.
  - Students will need to complete additional General Education requirements to satisfy MTA. See course catalog for additional information about the Michigan Transfer Agreement.
  - Students should also check with their transfer institution for the level of math required.
- \*\* CHEM-110 and CHEM-112 are recommended for the first and second semesters for students transferring into a Baccalaureate degree. Students should check with the transfer institution.
  - Students who choose to take CHEM-110 also need to take CHEM-112 to meet program requirements.
  - Students who take CHEM-108 do not need CHEM-110 or CHEM-112; however, CHEM-108 is not transferrable in most cases.

# General Studies

2017-2018 Catalog

Award Granted Upon Completion:  
Credits/Contacts Required: **60/60**  
Major code: 03/350

Associate in Applied Science

CIP Code: 240102

## Description

The Associate in Applied Science Degree in General Studies is an interdisciplinary course of study composed of 15 credit hours of required General Education, 24 credits in one of four occupational concentration areas, and 21 credits of elective course work. (Occupational Concentration areas: Business, Technology, Human Services, and Health Care). The selection of courses is made with consultation of an academic advisor and is based on integration and relatedness to one of the four occupational areas.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Approved Math	3-5
XXXX-xxx	Social & Behavioral Science	
	<b>-OR-</b> Humanities Elective	3
XXXX-xxx	General Education Electives	4-6

### Requirements – Min 45 credits

		<u>Cr</u>
XXXX-xxx	Occupational Concentration *, # Credits must be in one of 4 areas of Occupational Concentration (see below).	24
XXXX-xxx	Electives Any courses except those designated as Transitional Studies.	21

#	Internships and Co-ops may require that the student pass a criminal background check.
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### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
XXXX-xxx	Social & Behavioral Sciences/ Humanities	3/3
XXXX-xxx	Elective	3-4/3-4
XXXX-xxx	Elective	3-4/3-4
		<b>12-14/12-14</b>
<b>Second Semester</b>		
XXXX-xxx	Math Course (any approved math)	3-5/3-5
XXXX-xxx	Elective	3-4/3-4
XXXX-xxx	Course in Concentration *	4/4
XXXX-xxx	Course in Concentration *	5/5
		<b>15-18/15-18</b>
<b>Third Semester</b>		
XXXX-xxx	Additional General Education	6/6
XXXX-xxx	Elective	3-4/3-4
XXXX-xxx	Course in Concentration *	4/4
XXXX-xxx	Course in Concentration *	4/4
		<b>17-18/17-18</b>
<b>Fourth Semester</b>		
XXXX-xxx	Elective	3-4/3-4
XXXX-xxx	Elective	3-4/3-4
XXXX-xxx	Course in Concentration *	4/4
XXXX-xxx	Course in Concentration *	4/4
		<b>14-16/14-16</b>

\* **Choose one (1) Area of Occupational Concentration**

- Business Concentration:
  - Courses must be taken in ACCT, BUSN, CIS, ECON, HMG, and/or OIS.
- Technology Concentration:
  - Courses must be taken in AUTO, CADD, CNSS, ELEC, FRST, TECH, WATR, WELD, and/or GIS.
- Human Services Concentration:
  - Courses must be taken in CHLD, CJUS, and/or HSER.
- Health Care Concentration
  - Courses must be taken in HLTH, NURS, EMT and/or PMED.

# Geographic Information Systems

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science

Credits/Contacts Required: 61/63

Major code: 03/353

CIP Code: 151102

## Description

Geospatial studies encompasses several learning domains including geography (study of the features of the earth) and geodesy (study of the measurement and representation of the earth), and its uses with cartography, geographic information systems, and geospatial analysis to solve problems in a variety of disciplines ranging from life sciences to military to health care fields. Computer and mobile application-based tools such as spatial analysis, 3D mapping, and geovisualization make this career both engaging and challenging.

### General Education Requirements – Min 17 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
MATH-xxx	Mathematics Elective * MATH-105, 107, or higher	4
GEOG-110	Physical Geography	4
GEOG-125	World Regional Geography Developed World	3
XXXX-xxx	Social and Behavioral Science or Humanities	3

### Program Requirements (Minimum 37)

BIOL-107	Environmental Science	3
CIS-101	Computer Concepts & Applications	4
CIS-210	Web Page Design & Structure	3
CNSS-150	A+ Computer Maintenance	4
GEOG-150	Map, Compass & GPS	2
GIS-201	Introduction to Geographic Info Sys	3
GIS-202	Data Management	3
GIS-203	Spatial Analysis	4
GIS-204	Advanced Cartography	4
GIS-205	Remote Sensing	4
GIS-272	Co-op\Internship	3
XXXX-xxx	Approved Elective*	7
<b>*Approved Elective (7 Credits)</b>		
BUSN-203	Management Information Systems	3
CIS-130	Spreadsheet Applications	3
CIS-140	Database Fundamentals	3
CNSS-245	SQL Server	4
CNSS-262	Web Server Administration	4
CSCI-110	Introduction to Programming	3
CSCI-121	C++ Programming I	4
GIS-273	GIS Co-op Work Experience	1-8
GIS-274	GIS Co-op Work Experience	1-8

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
GEOG-110	Physical Geography	4/6
CNSS-150	A+ Computer Maintenance	4/6
GIS-201	Introduction to Geog Info Sys	3/3
		<b>14/18</b>
<b>Second Semester</b>		
XXXX-xxx	Approved Electives	3/3
CIS-101	Computer Concepts & Apps	4/4
GEOG-125	World Regional Geography Developed World	3/3
GEOG-150	Map, Compass, and GPS	2/2
XXXX-xxx	Social Behavioral or Humanities	3/3
		<b>15/15</b>
<b>Third Semester</b>		
CIS-210	Web Page Design & Structure	3/3
MATH-xxx	Math-105, 107, or higher	4/4
BIOL-107	Environmental Science	3/3
GIS-202	Data Management	3/3
GIS-203	Spatial Analysis	4/4
		<b>17/17</b>
<b>Fourth Semester</b>		
XXXX-xxx	Approved Elective	4/4
GIS-204	Advanced Cartography	4/4
GIS-205	Remote Sensing	4/4
GIS-xxx	Co-op\Internship	3/3
		<b>15/15</b>

All Internships and Co-ops require that the student pass a criminal background check.

# Human Services

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Human Services

Credits/Contacts Required: **60/60**

Major code: 03/360

CIP Code: 511599

## Description

The Associate in Applied Sciences degree is primarily designed for students who do not wish to transfer to a four-year college or university. This is an occupational degree offering entry level training and preparation for employment in the human services field. Students graduating with this degree will work under the direction of professionals in the areas of geriatrics, substance abuse, domestic violence, mental illness, juvenile delinquency, and poverty. An internship is required for this degree.

### General Education Requirements – Min 15 credits

	<u>Cr</u>
BUSN-177 Mathematics of Business <b>-OR-</b> Higher	3
COMM-103 Interpersonal Communication	3
ENGL-101 Rhetoric & Composition	3
PSYC-201 Introduction to Psychology	3
SOCY-151 Sociology	3

### Requirements – Min 45 credits

	<u>Cr</u>
CIS-101 Computer Concepts & Applications	4
COMM-104 Public Speaking <b>-OR-</b> LEAD-200 Introduction to Leadership	3
ENGL-102 Research Writing <b>-OR-</b> ENGL-145 Technical & Report Writing	3
HSER-100 Intro to Human Services	3
HSER-150 Ethics in Human Services	3
HSER-160 Interviewing Strategies & Techniques	3
HSER-272 Human Services Internship *	3
HLTH-147 First Aid/Heart Saver for Non- Healthcare Providers **	1
PSYC-280 Abnormal Psychology	3
SOCY-103 Cultural Diversity <b>-OR-</b> SOCY-208 Marriage & the Family	3
SOCY-207 Social Problems	3
XXXX-xxx Approved Electives ***	13

#### \*\*\* Approved Electives (Choose 13 Credits)

BIOL-104 Human Biology	4
PSYC-220 Developmental Psychology	3
FYE-101 College Success Strategies	3
FYE-103 Career Exploration	1
HIST-224 Native American History	3
HSER-273 Human Services Internship	3
PHED-141 Physical Fitness: A Wellness Approach	2
PHED-144 Effective Stress Management	2
SOCY-103 Cultural Diversity <b>-OR-</b> SOCY-208 Marriage & the Family	3
SOCY-205 Juvenile Delinquency and Justice	3
SOCY-206 Sociology of Death and Dying	3
WGST-200 Intro to Women & Gender Studies	3

### Suggested Sequences Per Semester

#### First Semester

CIS-101 Computer Concepts & Apps	4/4
ENGL-101 Rhetoric & Composition	3/3
HSER-100 Introduction to Human Services	3/3
SOCY-151 Sociology	3/3
	<u>13/13</u>

#### Second Semester

BUSN-177 Mathematics of Business <b>-OR-</b> Higher	3/3
COMM-103 Interpersonal Communications	3/3
ENGL-102 Research Writing <b>-OR-</b> ENGL-145 Technical & Report Writing	3/3
HSER-150 Ethics in Human Services	3/3
HTLH-147 First Aid/Heart Saver for Non- Healthcare Providers	1/1
PSYC-201 Introduction to Psychology	3/3
	<u>16/16</u>

#### Third Semester

COMM-104 Public Speaking <b>-OR-</b> LEAD-200 Introduction to Leadership	3/3
HSER-160 Interviewing Strategies & Tech	3/3
SOCY-207 Social Problems	3/3
XXXX-xxx Approved Electives **	6/6
	<u>15/15</u>

#### Fourth Semester

HSER-272 Human Services Internship *	3/3
PSYC-280 Abnormal Psychology	3/3
SOCY-103 Cultural Diversity <b>-OR-</b> SOCY-208 Marriage & the Family	3/3
XXXX-xxx Approved Electives **	7/7
	<u>16/16</u>

Internships and Co-ops may require that the student pass a criminal background check.

Continued

## Human Services - continued

- \* Students must complete one, 3-credit internship as a requirement for this program. Students must apply for and be approved by Bay College and the Human Service Agency before they can register for an internship. A second Internship may be taken at a different agency, for a total of 6 credits, with permission from the college. A background check is required for internship placement. Students cannot complete an internship at a past or current employer.
- \*\* HLTH-147 may be substituted if the student is currently CPR/First Aid certified upon completion of the program. Students must show documentation of this certification to the nursing division for advanced standing credit.
- \*\*\* Students must choose 13 credits of approved electives. Approved electives are based on occupational necessity for working in the field of human services. Students seeking approval for additional elective credits need to meet with their faculty advisor for course recommendations and approval.
  - Actual courses vary with specialization and interest. Many courses have prerequisites that must be met before they may be taken. Students not meeting prerequisites for their required courses may need to take more time and more credits. Please refer to your catalog or see your advisor.

# Law Enforcement

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Law Enforcement  
Credits/Contacts Required: **62/62**

Major code: 03/365

CIP Code: 430103

## Description

The Associate in Applied Science in Law Enforcement degree combines general education with coursework designed to prepare criminal justice students interested in a career in law enforcement for immediate entry into the workforce upon graduation. This program provides a balance of technical, vocational, and liberal study courses.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business -OR- any approved math course –	3
	<b>OR-</b> any natural science	
POLI-111	American Government -OR-	3
POLI-262	State & Local Government	
COMM-103	Interpersonal Communication	
COMM-104	Public Speaking	3
SOCY-151	Sociology	3

### Requirements – Min 47 credits \*\*

		<u>Cr</u>
CJUS-110	Introduction to Corrections	4
CJUS-112	Introduction to Criminal Justice	4
CJUS-114	Criminal Justice Report Writing	2
CJUS-212	Introduction to Law Enforcement	4
CJUS-213	The Criminal Court System	4
CJUS-214	Intro to Criminal Investigation	4
CJUS-215	Crime Scene Investigation	4
CJUS-222	Highway Safety & Traffic Investigation	4
CJUS-224	Emergency Preparedness/Crisis Management	4
CJUS-240	Ethics in Criminal Justice	4
SOCY-103	Cultural Diversity	3
XXXX-xxx	Approved Electives *	6
<b>* Approved Electives (Choose 6 Credits)</b>		
CJUS-210	Client Growth & Development	4
CJUS-272	Criminal Justice Internship	1-4
PSYC-201	Psychology	3
PSYC-280	Abnormal Psychology	3
SOCY-205	Juvenile Delinquency & Justice	3
SOCY-207	Social Problems	3
SOCY-208	Marriage & the Family	3
SPAN-101	Spanish I	3
SPAN-112	Spanish for CJ Majors I	4
SPAN-114	Spanish for CJ Majors II	4

\*Or any elective approved by Program Coordinator

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
CJUS-110	Introduction to Corrections	4/4
CJUS-112	Intro to Criminal Justice	4/4
SOCY-151	Sociology	3/3
		<b>14/14</b>
<b>Second Semester</b>		
CJUS-212	Intro to Law Enforcement	4/4
CJUS-213	The Criminal Court System	4/4
POLI-111	American Government -OR-	
POLI-262	State & Local Government	3/3
CJUS-114	CJ Report Writing	2/2
XXXX-xxx	Approved Elective	3/3
		<b>16/16</b>
<b>Third Semester</b>		
CJUS-214	Intro to Criminal Investigation	4/4
CJUS-222	Highway Safety & Traffic Investigation	4/4
CJUS-240	Criminal Justice Ethics	4/4
COMM-103	Interpersonal Comm. -OR-	
COMM-104	Public Speaking	3/3
		<b>15/15</b>
<b>Fourth Semester</b>		
BUSN-177	Math of Business -OR- Any approved math course -OR- any natural science	3-4/3-5
XXXX-xxx	Approved Elective	3/3
CJUS-215	Crime Scene Investigation	4/4
CJUS-224	Emergency Prep/Crisis Mgmt	4/4
SOCY-103	Cultural Diversity	3/3
		<b>17-18/17-19</b>

It is **CRITICAL** that students see their advisor to make an academic plan for this degree. Not all courses are offered every semester.

# Marketing

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Marketing

Credits/Contacts Required: 60/60

Major code: 03/312

CIP Code: 520703

## Description

The Marketing program is designed to enable students to gain entry level employment in a variety of marketing related fields. The program covers the basic working knowledge of general marketing theories and practices, the use of current technology appropriate to marketing operations, and the ability to communicate effectively in a marketing environment.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
COMM-104	Public Speaking	3
BUSN-177	Mathematics of Business *	3
ECON-132	Microeconomics	3
PSYC-201	Introduction to Psychology	3
	<b>-OR-</b>	
SOCY-151	Sociology	3

### Program Requirements – Min 45 credits

		<u>Cr</u>
ACCT-100	Practical Accounting <b>-OR-</b>	4
ACCT-101	Accounting Principles I	
BUSN-160	Introduction to Business	3
BUSN-195	Business Communications	3
BUSN-242	Principles of Management	3
BUSN-253	Marketing	3
BUSN-260	International Business	3
BUSN-262	Principles of Selling	3
BUSN-263	Introduction to Modern Advertising	3
CIS-101	Computer Concepts & Applications	4
CIS-121	Microsoft Excel	1
CIS-210	Web Page Design & Structure	3
COMM-201	Mass Communication & Popular Culture	3
ENGL-102	Research Writing <b>-OR-</b>	3
ENGL-145	Technical Report Writing	
XXXX-xxx	Business Electives <b>-OR-</b> Co-op **	6

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-160	Introduction to Business	3/3
BUSN-177	Mathematics of Business *	3/3
CIS-101	Computer Concepts & Apps	4/4
ENGL-101	Rhetoric & Composition	3/3
		<hr/> 13/13
<b>Second Semester</b>		
ACCT-100	Practical Accounting <b>-OR-</b>	4/4
ACCT-101	Accounting Principles I	
BUSN-253	Marketing	3/3
COMM-104	Public Speaking	3/3
ECON-132	Microeconomics	3/3
ENGL-102	Research Writing <b>-OR-</b>	3/3
ENGL-145	Technical Report Writing	
		<hr/> 16/16
<b>Third Semester</b>		
CIS-210	Web Page Design & Structure	3/3
BUSN-242	Principles of Management	3/3
BUSN-195	Business Communications	3/3
BUSN-262	Principles of Selling	3/3
CIS-121	Microsoft Excel	1/1
XXXX-xxx	Business Elective <b>-OR-</b> Co-op **	3/3
		<hr/> 16/16
<b>Fourth Semester</b>		
BUSN-260	International Business	3/3
BUSN-263	Intro to Modern Advertising	3/3
COMM-201	Mass Comm. & Popular Culture	3/3
PSYC-201	Intro to Psychology <b>-OR-</b>	3/3
SOCY-151	Sociology	
XXXX-xxx	Business Electives <b>-OR-</b> Co-op **	3/3
		<hr/> 15/15

\* Other mathematics credits may be accepted in the circumstances where a student has changed programs.

\*\* Business Electives can be chosen from any ACCT, BUSN, CIS, ECON, or OIS courses. Advisor assistance with choosing electives is highly recommended. All Co-op credits must be approved by an advisor.

# Mechatronics and Robotics Systems

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Mechatronics and Robotic Systems

Credits/Contacts Required: **60/60**

Major code: 03/338

CIP Code: 150403

## Description

Mechatronics is an interdisciplinary field involving mechanical, electronic, computer, robotic, and control systems. Students will gain the technical knowledge and skills needed to install, repair and maintain electromechanical, fluid power, process control or robotic systems. Mechatronics and Robotics Systems graduates will be prepared for employment in a wide variety of jobs in a steadily growing field.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business <b>-OR-</b> MATH-105 <b>-OR-</b> MATH-107	3/4
XXXX-xxx	Social Behavioral Science\Humanities	3
XXXX-xxx	General Education Electives	5-6

### Program Requirements (Minimum 32)

ELEC-130	Circuit Fundamentals I	4
ELEC-145	Basic Process Control	4
ELEC-180	Electrical Machinery and Controls	4
ELEC-240	Real Time Robotics Systems	4
ELEC-245	Robotic Vision Systems	4
ELEC-285	Fluid Power	4
ELEC-290	Introduction to Programmable Logic Controllers	4
ELEC-295	Mechatronics	4
XXXX-xxx	Approved Electives	13

#### **Approved Elective (13 Credits)**

CNSS-130	Introduction to Networks	4
CNSS-150	A plus Computer Maintenance	4
CNSS-220	Network Design	4
ELEC-135	Circuit Fundamentals II	4
ELEC-160	Electronics I	4
ELEC-170	Digital I Fundamentals	4
ELEC-272	Mechatronics Co-op Internship	1- 8
TECH-100	Basic Machine Tool Operation	4
TECH-101	Blueprint Reading	2
TECH-105	Materials of Industry	4
WELD-110	Intro to Oxygen-Fuel Welding and Cutting	4
WELD-120	Arc Welding	4
XXXX-xxx	Any General Education Course	

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
ELEC-130	Circuit Fundamentals I	4/4
ELEC-285	Fluid Power	4/4
XXXX-xxx	Approved Electives	<u>4/4</u>
		<b>15/15</b>
<b>Second Semester</b>		
XXXX-xxx	Approved Electives	4/4
ELEC-145	Basic Process Control	4/4
ELEC-180	Electrical Machinery and Controls	4/4
BUSN-177	Mathematics of Business <b>-Or-</b> MATH-105 <b>-Or-</b> MATH-107	<u>3-4/3-4</u>
		<b>15/15</b>
<b>Third Semester</b>		
ELEC-240	Real Time Robotics Systems	4/4
ELEC-290	Introduction to Programmable Logic Controllers	4/4
XXXX-xxx	Social Behavioral Science or Humanities	3/3
XXXX-xxx	General Education Elective	<u>3/3</u>
		<b>14/14</b>
<b>Fourth Semester</b>		
ELEC-245	Robotic Vision Systems	4/4
ELEC-295	Mechatronics	4/4
XXXX-xxx	Approved Elective	5/5
XXXX-xxx	General Education elective	<u>3/3</u>
		<b>16/16</b>

**All Internships and Co-ops may require that the student pass a criminal background check.**

# Nursing

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Nursing

Credits/Contacts Required: **66/100**

Major code: 03/372

CIP Code: 513801

## Description

This program will prepare a student to demonstrate entry level competencies as a Registered Nurse (RN). A concept based framework is utilized throughout the program to present major concepts that are essential to nursing practice. By providing a focus on active learning and application, students are assisted in developing conceptual thinking as they apply evidenced-based scientific, theoretical, and practical knowledge to clinical situations in a variety of health care settings. Students who successfully complete the program will be awarded as Associate of Applied Science Degree in Nursing and are qualified to take the National Council Licensure Examination for Registered Nursing (NCLEX-RN). The program has a full-time RN track and a 12 month LPN to RN bridge completion track at the Escanaba Campus and a full-time RN track at the Iron Mountain campus.

**Program Approval:** The Bay College Associate Degree in Nursing program is approved by the Michigan Board of Nursing, and is accredited by the Accreditation Commission for the Education of Nursing (ACEN) , at 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326; 1-404-975-5000.

Two pathways are offered to assist students in obtaining their associate degree in nursing:

1. A five (5) semester full-time program is offered both at the Escanaba and Iron Mountain Campuses.
2. A three (3) semester, 12-month bridge from Licensed Practical Nurse (LPN) to RN completion program is offered at the Escanaba Campus. This bridge program is specifically designed for current Licensed Practical Nurses with unrestricted licensure who wish to advance their nursing education into the field of Registered Nursing.

Both five (5) semester full time pathways admit students annually with a program start at the Escanaba Campus in the Fall semester, and at the Iron Mountain Campus in the Winter semester. The LPN to RN bridge completion program is currently only offered at the Escanaba Campus and accepts students for a Winter semester start. Both full time and LPN to RN bridge completion tracks accept students based on a selective admission process. Students interested in this program should call the Allied health Division (906-217-4090) to obtain additional information.

Once a student is accepted into one of the pathways, the student is required to follow the sequence of courses for that pathway and its designated location. To progress in the program, the student must maintain a "C" or better grade in all program courses and their prerequisites. Graduates of both the pathways are eligible to sit for the NCLEX-RN (licensing exam) upon successful completion of the program.

\*Entry level Registered Nurses may find employment in a variety of practice settings, including but not limited to: acute care hospitals, long term and extended term care facilities, clinics, and physician's offices. Jobs in most areas of nursing are plentiful, and employment rate is near 100%. The reported average yearly income in the State of Michigan based on data from 2015 ranges from approximately \$64,310 to \$71,790 for Registered Nurses (U.S. Department of Labor, Bureau of Labor Statistics). Graduates may transfer all or part of credit/contact hours earned at Bay to several colleges and universities to pursue a Bachelor of Science in Nursing (B.S.N.) degree.

### Requirements for Nursing Programs

All students accepted into the ADN program are required to purchase uniforms and other items which will be detailed at the program orientation session held prior to the start of the program. The college makes arrangements for liability insurance, with the cost being billed through the student's assessment fee. Once accepted into the program and prior to beginning courses in the program, the Department of Allied Health requires students to successfully pass the following; criminal background check, a drug test, American Heart Association CPR

certification for the Healthcare Provider and the Certification of Physical Fitness Form completed by your Physician. Along with the Certification of Fitness Form, students must also have proof they are immunized for specific infectious diseases. Facilities may have additional requirements, which a student will also need to meet.

The Department of Allied Health orders your background check and drug screening which is tracked along with immunization and other required documentation to verify clinical fitness through an outside agency, the cost of which is incurred by the student as a Nursing Assessment Fee.

Throughout the A.D.N. program, students are required to take a variety of standardized learning assessments, which Bay College School of Nursing obtains via Health Education Systems, Inc. (HESI), a national testing company. The cost for the HESI testing is incurred by the student as a Nursing Assessment Fee. Students will be scheduled to take HESI tests when they enter the program, throughout the program and at program completion. All A.D.N program students will attend a 3-Day Live NCLEX Review seminar upon completion of the program. This seminar is 8 hours long each day, and is held on Tuesday, Wednesday and Thursday of the final exam week, the last semester of the program. The NCLEX Review will provide information to assist students in preparation for successful challenge of the NCLEX - RN Licensure examination.

Full-Time Registered Nursing, Associate in Applied Science Degree Program:					
General Education Requirements			Program Requirements		
<b>Communication:</b>			BIOL-276	Pathophysiology*	3/3
ENGL-101	Rhetoric and Composition*	3/3	BIOL-225	Medical Microbiology*	2/2
COMM-103	Interpersonal Communication*	3/3	HLTH-115	Intro to Pharmacology*	1/1
			HLTH-140	Dosage Calculation*	2/2
<b>Natural Science:</b>			NURS-130	Foundations of Nursing	6/12
BIOL-213	Anatomy & Physiology I*	4/5	NURS-134	Health Concepts I	5/9
BIOL-214	Anatomy & Physiology II*	4/5	NURS-136	Leadership in Nursing	2/2
			NURS-138	Behavioral Health Nursing	5/9
<b>Social and Behavioral Science:</b>			NURS-254	Health Concepts II	5/9
PSYC-201	Introduction to Psychology*	3/3	NURS-256	Family Nursing	6/10
Social/Behavioral Science Elective*		3/3	NURS-265	Complex Healthcare Concepts	6/10
			NURS-267	RN Capstone	3/9
Total General Education credits/contacts: 20/22					

Licensed Practical Nurse to Registered Nurse Bridge – Completion Program: (Must hold unencumbered LPN License to be eligible for entry into the Bridge-Completion program)					
General Education Requirements			Program Requirements		
<b>Communication:</b>			BIOL-276	Pathophysiology*	3/3
ENGL-101	Rhetoric and Composition*	3/3	BIOL-225	Medical Microbiology*	2/2
COMM-103	Interpersonal Communication*	3/3	NURS-142	Bridge to RN Practice I	3/3
			NURS-143	Bridge to RN Practice II	1/3
<b>Natural Science:</b>			NURS-144	Health Concepts Bridge	5/9
BIOL-213	Anatomy & Physiology I*	4/5	NURS-148	Behavioral Health Concepts Bridge	5/9
BIOL-214	Anatomy & Physiology II*	4/5	NURS-246	Family Concepts Bridge	5/9
			NURS-265	Complex Healthcare Concepts	6/10
<b>Social and Behavioral Science:</b>			NURS-267	RN Capstone	3/9
PSYC-201	Introduction to Psychology*	3/3	Total program credits/contacts:		33/57
Social/Behavioral Science Elective*		3/3			
Choose One: ANTH-201, PHIL-204, PHIL-230, LEAD-200, POLI-111, POLI-262, PSYC-220, PSYC-280, SOCY-103, SOCY-151, SOCY-206, SOCY-207, SOCY-208					
Total General Education credits/contacts: 20/22					

NOTE: In order to succeed and progress, the student must earn a "C" or better in all program and general education courses and their prerequisites.

\* These courses may be taken prior to acceptance into the program on a space available basis.

\*\*Students who wish to transfer to a 4-year institution are advised to consult that institution regarding transferability of social science courses

Course sequences of each pathway and its campus location are listed in the table below:

	<b>Escanaba Campus: ADN Full Time Program Code: 372</b>		<b>Iron Mountain Campus: ADN Full Time Program Code: 372</b>		<b>Escanaba Campus- ADN Bridge Program Code: 370</b>	
	66 Credits/100 Contacts		66 Credits/100 Contacts		39 Credits/63 Contacts (Excludes any pre-bridge program contacts)	
	Courses	credits/contacts	Courses	credits/contacts	Courses	credits/ contacts
<b>FALL</b>	BIOL-213 Anatomy & Physiology I ENGL-101 Rhetoric & Composition NURS-130 Foundations HLTH-115 Intro to Pharmacology HLTH-140 Dosage Calculation  TOTAL	4/5 3/3 6/12 1/1 2/2  16/23				
<b>WINTER</b>	BIOL-214 Anatomy & Physiology II PSYC-201 Intro to Psychology COMM-103 Interpersonal Communications NURS-134 Health_Concepts I  TOTAL	4/5 3/3 3/3 5/9  15/20	BIOL-213 Anatomy & Physiology I ENGL-101 Rhet & Comp NURS-130 Foundations HLTH-115 Intro to Pharmacology HLTH-140 Dosage Calculation  TOTAL	4/5 3/3 6/12 1/1 2/2  16/23	BIOL-225 Medical Microbiology COMM-103 Interpersonal Communications NURS-148 Behavioral Health Concepts Bridge NURS-142 Bridge to RN Practice I NURS-143 Bridge to RN Practice II  TOTAL	2/2  3/3 5/9 3/3 1/3  14/20
<b>SUMMER</b>	BIOL-225 Medical Microbiology NURS-138 Behavioral Health Nursing  TOTAL	2/2 5/9  7/11	PSYC-201 Intro to Psychology NURS-134 Health_Concepts I  TOTAL	3/3 5/9  8/12	NURS-144 Health Concepts Bridge BIOL-276 Pathophysiology NURS-246 Family Concepts Bridge  TOTAL	5/9 3/3 5/9  13/21
<b>FALL</b>	BIOL-276 Pathophysiology NURS-256 Family Nursing NURS-254 Health Concepts II  TOTAL	3/3 6/10 5/9  14/22	BIOL-225 Medical Microbiology COMM-103 Interpersonal Communications BIOL-214 Anatomy & Physiology II NURS-138 Behavioral Health Nursing  TOTAL	2/2 3/3 4/5 5/9  14/19	XXXX-xxx SOC-SCI Elective NURS-265 Complex Healthcare Concepts NURS-267 RN Capstone  TOTAL	3/3  6/10 3/9  12/22
<b>WINTER</b>	NURS-136 Leadership NURS-265 Complex Healthcare Concepts NURS-267 RN Capstone XXXX-xxx Social Behavioral Science Elective  TOTAL	2/2 6/10 3/9 3/3  14/24	BIOL-276 Pathophysiology NURS-256 Family Nursing NURS-254 Health Concepts II  TOTAL	3/3 6/10 5/9  14/22		
<b>SUMMER</b>			NURS-136 Leadership NURS-265 Complex Healthcare Concepts NURS-267 RN Capstone XXXX-xxx Social Behavioral Science Elective  TOTAL	2/2 6/10 3/9 3/3  14/24		

# Office Information Systems/Administrative Assistant

Award Granted Upon Completion:  
Credits/Contacts Required: **60/62**  
Major code: 03/381

Associate in Applied Science in Office Systems/  
Administrative Assistant  
CIP Code: 520401

## Description

## 2017-2018 Catalog

The Office Information Systems program is designed to prepare students for entry-level positions in administrative support roles. In addition to training in technology, software applications, and office procedures, heavy emphasis will also be placed on development of the soft skills—communication, teamwork, customer service, etc.—needed on the job.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business *	3
XXXX-xxx	Social & Behavioral Science	
	-OR- Humanities Elective	3
XXXX-xxx	General Education Electives	6

### Program Requirements – Min 45 credits \*\*

		<u>Cr</u>
ACCT-100	Practical Accounting -OR-	
ACCT-101	Accounting Principles I •	4
BUSN-195	Business Communications -OR-	3
ENGL-145	Tech. & Report Writing	
CIS-101	Computer Concepts & Applications	4
CIS-123	Microsoft PowerPoint	1
CIS-130	Spreadsheet Applications •	3
CIS-140	Database Applications •	3
OIS-108	Document Processing	2
OIS-117	Records Management	2
OIS-150	Word Processing Applications + •	4
OIS-191	Business English & Proofreading +	3
OIS-218	Machine Transcription	2
OIS-250	Advanced Word Processing •	3
OIS-260	Office Technology & Procedures •	4
XXXX-xxx	Approved Electives ***	7

#### \*\*\* Approved Electives (choose at least 7 credits)

ACCT-105	Accounting with Computers	3
BUSN-160	Introduction to Business	3
BUSN-250	Business Law I	3
CIS-115	Using Microsoft Windows	3
CIS-125	Business Technology Tools	2
OIS-234	Desktop Publishing & Design	4
OIS-271-2-3	OIS Internship	1-3

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-177	Mathematics of Business *	3/3
CIS-101	Computer Concepts & Apps •	4/4
OIS-150	Word Processing Applications + •	4/4
OIS-191	Business English & Proofreading +	3/3
		<b>14/14</b>

<b>Second Semester</b>		
ACCT-100	Practical Accounting -OR-	4/4
ACCT-101	Accounting Principles I	
CIS-123	Microsoft PowerPoint •	1/1
ENGL-101	Rhetoric & Composition	3/3
OIS-108	Document Processing	2/3
OIS-117	Records Management	2/2
OIS-250	Adv Word Processing •	3/3
		<b>15/16</b>

<b>Third Semester</b>		
BUSN-195	Business Communications -OR-	3/3
ENGL-145	Tech. & Report Writing	
CIS-130	Spreadsheet Applications •	3/3
OIS-218	Machine Transcription	2/3
XXXX-xxx	Social & Behavioral Sciences -OR-	3/3
	Humanities Elective	
XXXX-xxx	Approved Electives	4/4
		<b>15/16</b>

<b>Fourth Semester</b>		
CIS-140	Database Applications •	3/3
OIS-260	Office Tech & Procedures •	4/4
XXXX-xxx	Approved Electives	3/3
XXXX-xxx	General Education Electives	6/6
		<b>16/16</b>

\* Other mathematics credits may be accepted in the circumstances where a student has changed programs.

\*\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

• These courses must be taken within five years of graduation to meet program requirements.

+ These classes are prerequisites to other courses in the program. Failure to take them in the proper sequence may delay program completion.

# Office Information Systems/Medical Office Specialist

Award Granted Upon Completion: Associate in Applied Science in Office Systems/  
 Credits/Contacts Required: **60/61** Medical Office Specialist  
 Major code: 03/383 CIP Code: 510706

## Description

## 2017-2018 Catalog

The Medical Office Specialist program is designed to prepare students for entry-level employment in a variety of medical environments. This field of study develops medical office skills, knowledge, and attitudes sought by today's medical office employers. Medical office courses will provide skills in terminology, medical coding and insurance billing, electronic records, healthcare documentation, and health information management.

### General Education Requirements – Min 15 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
BUSN-177	Mathematics of Business *	3
XXXX-xxx	Social & Behavioral Science	
	-OR- Humanities Elective	3
XXXX-xxx	General Education Electives	6

### Program Requirements – Min 45 credits \*\*

		<u>Cr</u>
BUSN-195	Business Communications –OR-	3
ENGL-145	Tech. & Report Writing	
CIS-121	Microsoft Excel •	1
CIS-122	Microsoft Access •	1
CIS-123	Microsoft PowerPoint •	1
HLTH-118	Medical Terminology I	3
HLTH-119	Medical Terminology II	2
OIS-150	Word Processing Applications + •	4
OIS-170	Electronic Medical Office Records	3
OIS-191	Business English & Proofreading +	3
OIS-218	Machine Transcription	2
OIS-219	Healthcare Documentation	3
OIS-220	Medical Insurance Billing	3
OIS-230	Medical Coding	3
OIS-250	Advanced Word Processing •	3
OIS-260	Office Technology & Procedures •	4
OIS-270	Health Information Management	3
XXXX-xxx	Approved Electives -OR- OIS Internship	3

#### Approved Electives (choose minimum of 3 credits)

BUSN-160	Introduction to Business	3
BUSN-250	Business Law I	3
CIS-101	Computer Concepts & Apps	4
CIS-115	Using Microsoft Windows	3
CIS-125	Business Technology Tools	2
OIS-108	Document Processing	2
OIS-117	Records Management	2
OIS-234	Desktop Publishing & Design	4
OIS-273	OIS Internship	3

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BUSN-177	Mathematics of Business *	3/3
HLTH-118	Medical Terminology I +	3/3
OIS-150	Word Processing Applications + •	4/4
OIS-191	Business English & Proofreading +	3/3
ENGL-101	Rhetoric & Composition	3/3
		<b>16/16</b>

<b>Second Semester</b>		
BUSN-195	Business Communications -OR-	3/3
ENGL-145	Tech. & Report Writing	
CIS-121	Microsoft Excel •	1/1
CIS-122	Microsoft Access •	1/1
CIS-123	Microsoft PowerPoint •	1/1
HLTH-119	Medical Terminology II +	2/2
OIS-250	Adv Word Processing •	3/3
XXXX-xxx	Social & Behavioral Science	3/3
	-OR- Humanities Elective	
		<b>14/14</b>

<b>Third Semester</b>		
OIS-170	Elec Medical Office Records +	3/3
OIS-218	Machine Transcription	2/3
OIS-220	Medical Insurance Billing +	3/3
XXXX-xxx	General Education Electives	6/6
		<b>14/15</b>

<b>Fourth Semester</b>		
OIS-219	Healthcare Documentation	3/3
OIS-230	Medical Coding	3/3
OIS-260	Office Tech & Procedures •	4/4
OIS-270	Health Information Management	3/3
XXXX-xxx	Approved Elective(s) -OR- OIS Internship	3/3
		<b>16/16</b>

\* Other mathematics credits may be accepted in the circumstances where a student has changed programs.

\*\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

• These courses must be taken within five years of graduation to meet program requirements.

+ These classes are prerequisites to other courses in the program. Failure to take them in the proper sequence may delay program completion.

# Paramedic

2017-2018 Catalog

Award Granted Upon Completion:  
Credits/Contacts Required: **71/100**  
Major code: 03/378

Associate in Applied Science in Paramedic

CIP Code: 510904

## Description

The goal of Bay College's Paramedic Program is "To prepare competent entry-level Emergency Medical Technician-Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains, with or without exit points at the Emergency Medical Technician- Intermediate, and/or Emergency Medical Technician-Basic, and/or First Responder levels." (Goal obtained from the 2012 Standards and Guidelines for the Commission on Accreditation of Educational Programs in the Emergency Medical Services Professions.) To assist the students in reaching this goal, the Paramedic program combines general education with program specific lecture, lab and clinical/field courses.

The first two semesters of the program incorporate the Basic Emergency Medical technician certificate. Student must obtain an EMT license, and hold a current CEVO Emergency Vehicle Driving endorsement, prior to taking the 200 level Paramedic (PMED) courses or have instructor permission. Graduates of the Paramedic Program are prepared to take the National Registry Exam for Paramedics. Passing this exam is required prior to the graduate obtaining a Michigan License to practice as a Paramedic.

Acceptance into EMT and Paramedic programs are based on a selective ranking process. Ranking requirements are provided by the Department of Allied Health.

Prior to entry: The Department of Allied Health requires student to successfully pass the following; Criminal background check, a drug test, be American Heart Association CPR for the Healthcare Provider Certified and provide a Certification of Physical Fitness Form completed by your Physician. Along with the Certification of Fitness, students must also have a proof they are immunized for specific contagious diseases, all detailed on the Certification of Fitness. Facilities may have additional requirements which a student would also need to meet at their request. Student must hold an unrestricted State of Michigan Driver's License. Students are required to provide a current copy of their Michigan Department of Motor Vehicle records once awarded a seat in the program to verify student's Michigan State Driver's license is current and in good standing.

The Department of Allied Health orders your background check, drug screening, and immunization tracker through an outside agency, the cost of which is incurred by the student and billed as part of program assessment fees.

## Paramedic Continued

### General Education Requirements – Min 15 credits

	<u>Cr</u>
ENGL-101 Rhetoric & Composition	3
COMM-103 Interpersonal Communication	3
PSYC-201 Introduction to Psychology	3
BIOL-104 Human Biology*	4
BIOL-213 & Anatomy and Physiology I***	
BIOL-214 Anatomy and Physiology II	
XXXX-xxx Select one of the following: ANTH -201, PHIL-230, PSYC-280, PSYC 220, SOCY-103, SOCY-151, SOCY-206, SOCY-207 or SOCY-208	3

### Requirements – Min 53 credits

EMT-110 Basic EMT I**	4/4
EMT-120 Basic EMT II**	2/4
EMT-130 Ambulance Driving**	1/2
EMT-140 Field Rescue**	2/3
EMT-150 Basic EMT III**	4/4
EMT-160 Basic EMT IV**	2/4
EMT-170 Basic EMT Clinic**	2/6
PMED-212 Paramedic I**	4/4
PMED-217 Paramedic II**	4/4
PMED-220 Paramedic Cardiology I**	2/2
PMED-225 Paramedic Cardiology II**	2/2
PMED-230 Paramedic Pharmacology I**	2/2
PMED-235 Paramedic Pharmacology II**	2/2
PMED-242 Paramedic Skills I**	3/6
PMED-247 Paramedic Skills II**	3/6
PMED-250 Paramedic Clinical I**	3/9
PMED-255 Paramedic Clinical II**	3/9
PMED-270 Paramedic Internship**	7/7
PMED-280 Advanced Cardiac Life Support	1/1
PMED-282 Pediatric Advanced Life Support	1/1
PMED-285 International Trauma Life Support	1/1
Total Program Requirement	55/82

\*Courses must be completed with a 2.0 or higher grade prior to acceptance into Part II of the Paramedic Completion program

\*\*If any part of this course is failed, it is necessary to retake and pay for the entire course

\*\*\*If BIOL-104 is not taken, then *BOTH* BIOL-213 and BIOL-214 must be taken in exchange for substitution of BIOL-104

### Suggested Sequences Per Semester

	<u>Cr / Ct</u>
<b>First Semester</b>	
BIOL-104 Human Biology* -OR-	4/5
BIOL-213 Anatomy and Physiology I***	
ENGL-101 Rhetoric & Composition*	3/3
EMT-110 Basic EMT I*	4/4
EMT-120 Basic EMT II*	2/4
PSYC-201 Introduction to Psychology*	3/3
	<hr/> 16/19

#### **Second Semester**

COMM-103 Interpersonal Communications*	3/3
EMT-130 Ambulance Driving	1/2
EMT-140 Field Rescue*	2/3
EMT-150 Basic EMT III*	4/4
EMT-160 Basic EMT IV*	2/4
EMT-170 Basic EMT Clinic*	2/6
	<hr/> 14/22

*Note: Must obtain EMT Basic license prior to taking PMED courses, and hold a (CEVO3) Emergency Vehicle Driving endorsement prior to starting the Fall third semester. Students who were enrolled in the EMT program must apply to rank for Paramedic level courses for the next Fall semester by applying by March 1 of the acceptance year.*

#### **Third Semester**

PMED-212 Paramedic I	4/4
PMED-220 Paramedic Cardiology I	2/2
PMED-230 Paramedic Pharmacology I	2/2
PMED-242 Paramedic Skills I	3/6
PMED-250 Paramedic Clinical I	3/9
XXXX-xxx Select one of the following: ANTH -201, PHIL-230, PSYC- 280, PSYC 220, SOCY-103, SOCY-151, SOCY-206, SOCY- 207 or SOCY-208	3/3
	<hr/> 17/26

#### **Fourth Semester**

PMED-217 Paramedic II	4/4
PMED-225 Paramedic Cardiology II	2/2
PMED-235 Paramedic Pharmacology II	2/2
PMED-247 Paramedic Skills II	3/6
PMED-255 Paramedic Clinical II	3/9
	<hr/> 14/23

#### **Fifth Semester (Summer I & II)**

PMED-280 Advanced Cardiac Life Support	1/1
PMED-285 International Trauma Life Support	1/1
PMED-282 Pediatric Advanced Life Support	1/1
PMED-270 Paramedic Internship	7/7*
*Internship hours=40 hours/credit = total 7 credits =280 hours	10/10

**Program Totals:** **71/100**

# Water Resource Management

2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Water Resource

Credits/Contacts Required: 69/78

Major code: 03/340

Management

CIP Code: 150506

## Description

The Water Resource Management Program is designed for providing specialized training in water and wastewater treatment theory and application to both entry-level personnel and those already in the field. Persons who complete degree requirements and gain appropriate work experience may qualify to progress through certification to the highest grade licensure in municipal and industrial water and wastewater treatment.

### General Education Requirements – Min 18 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
ENGL-145	Technical Report Writing	3
MATH-105	Intermediate Algebra *	4
MATH-106	<b>-OR-</b> Tech Algebra & Trig I *	
CHEM-108	Technical Chemistry **	5
CHEM-110	General Chemistry I	
POLI-111	American Government <b>-OR-</b>	3
POLI-262	State & Local Government	

### Requirements – Min 51 credits

		<u>Cr</u>
ELEC-145	Basic Process Control	4
GIS -201	Intro to Geographic Info Systems	3
WATR-110	Wastewater Operations & Mgmt.	4
WATR-120	Water Operations & Management	4
WATR-150	Team Project Course	2
WATR-220	Industrial Solutions	3
WATR-230	Aquatic Evaluations & Bacteriology	3
WATR-240	Environmental Analysis	5
WATR-250	Water Analysis & Techniques	5
WATR-255	Mechanical & Instrumentation	3
WATR-260	Current Issues for Managers	3
WATR-270	Water in Motion	4
WATR-272	Professional Field Experience (Water)	4
WATR-273	Professional Field Experience (Wastewater)	4
<b><u>OPTIONAL</u></b>		
CHEM-112	General Chemistry II **	5

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ENGL-101	Rhetoric & Composition	3/3
MATH-105	Intermediate Algebra <b>-OR-</b>	4/4
MATH-106	Technical Algebra & Trig I *	
WATR-110	Wastewater Operations & Mgmt.	4/4
WATR-260	Current Issues for Managers	3/3
		<b>14/14</b>
<b>Second Semester</b>		
CHEM-108	Technical Chemistry **	5/7
ENGL-145	Technical Report Writing	3/3
ELEC-145	Basic Process Control	4/4
WATR-120	Water Operations & Management	4/4
WATR-230	Aquatic Evaluations & Bacteriology	3/4
		<b>19/22</b>
<b>Third Semester</b>		
GIS -201	Intro to Geographic Info Systems	3/3
POLI-111	American Government <b>-OR-</b>	3/3
POLI-262	State & Local Government	
WATR-150	Team Project Course	2/3
WATR-240	Environmental Analysis	5/7
WATR-270	Water in Motion	4/4
		<b>17/20</b>
<b>Fourth Semester</b>		
WATR-220	Industrial Solutions	3/3
WATR-250	Water Analysis & Techniques	5/7
WATR-255	Mechanical & Instrumentation	3/4
WATR-272	Professional Field Exp. (Water)	4/4
WATR-273	Professional Field Exp. (Wastewater)	4/4
		<b>19/22</b>

\* MATH-106 and MATH-105 do not satisfy MTA.

- Transfer students should take MATH-110, which will fulfill the math requirement.

- Students will need to complete additional General Education requirements to satisfy MTA. See course catalog for additional information about the Michigan Transfer Agreement.

- Students should also check with their transfer institution for the level of math required.

\*\* CHEM-110 and CHEM-112 are recommended for the first and second semesters for students transferring into a Baccalaureate degree. Students should check with the transfer institution.

- Students who choose to take CHEM-110 also need to take CHEM-112 to meet program requirements.

- Students who take CHEM-108 do not need CHEM-110 or CHEM-112; however, CHEM-108 is not transferrable in most cases.

# Water Resource Management 1+1 2017-2018 Catalog

Award Granted Upon Completion: Associate in Applied Science in Water Resource

Credits/Contacts Required: 67/79

Major code: 03/341

Management

CIP Code: 150506

## Description

Bay de Noc Community college is offering a 1+1 program in Water Resource Management. After completing a basic Freshman year curriculum in science, students may transfer to Bay College for specialized courses in Water Technology. Upon graduation, students are awarded an Associate in Applied Science in Water Resource Management degree and are immediately eligible for certification and entrance into the water/wastewater treatment industry.

Following is a general curriculum outline for the Freshman year and a list of the specific Water Technology courses for the Sophomore year at Bay College.

### General Education Requirements

Exact course titles and credits for this program are listed in the transfer guides specific to each community college. Students must attain a grade of "C" or better to transfer credits from Bay College.

The following Colleges have articulated agreements with Bay College for completion of this degree:

- Alpena Community College
- Glen Oaks Community College
- Gogebic Community College
- Grand Rapids Community College
- Kalamazoo Community College
- Kellogg Community College
- Lake Michigan College
- Lansing Community College
- Macomb Community College
- Montcalm Community College
- Muskegon community College
- St. Clair County community college
- West Shore Community College

### Requirements

First year courses are taken at one of the above community colleges. Transfer guides can be found at <http://www.baycollege.edu/Students/Transfer-Information/Transfer-To-Bay.aspx> .

Students who complete the specific requirements at their community college will be required to complete the WATR courses at Bay and can do so in one academic year.

### Suggested Sequences Per Semester

#### Sophomore Year at Bay College

		<u>Cr / Ct</u>
<b>First Semester</b>		
WATR-110	Wastewater Operations & Management	4/4
WATR-240	Environmental Analysis	5/7
WATR-260	Current Issues for Managers	3/3
WATR-270	Water in Motion	4/4
		<hr/>
		<b>16/18</b>
<b>Second Semester</b>		
WATR-120	Water Operations & Management	4/4
WATR-220	Industrial Solutions	3/3
WATR-230	Aquatic Evaluations & Bacteriology	3/4
WATR-250	Water Analysis & Techniques	5/7
WATR-255	Mechanical & Instrumentation	3/4
WATR-272	Professional Field Experience (Water)	3/4
WATR-273	Professional Field Experience (Wastewater)	3/4
		<hr/>
		<b>24/30</b>

# Occupational and Technology Programs

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## ABOUT THE CERTIFICATE PROGRAMS

Bay College offers certificate programs in a number of subject areas. Most certificate programs can be completed in one year of full-time enrollment. A certificate program is designed to develop a particular set of employment skills, and it can build toward a degree. Please note that the "Certificate" awarded is not the same as a licensing exam or certification awarded by a national or regional accrediting association, although some programs prepare you to take licensing exams or complete certification processes.

For information about the Student Learning Outcomes for each of the programs below, please go to [www.baycollege.edu/slos](http://www.baycollege.edu/slos).

### Certificate Programs

Accounting  
Computer Applications  
Corrections Officer  
Early Childhood Care & Education  
Emergency Medical Technician - Basic (EMT-Basic)  
Entrepreneurial Small Business  
Health Careers  
Mechatronics  
Office Assistant  
Private Security  
Practical Nursing  
Sustainability  
Welding

# Accounting

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Accounting

Credits/Contacts Required: 32/32

Major code: 04/401

CIP Code: 520301

## Description

This program is designed for students interested in an entry level position in the field of Accounting. The program will provide the business, accounting, and computer knowledge and skills required to perform duties as a bookkeeper or accounting clerk. Students may further enhance their employability options by completing an Associate in Applied Science in Accounting degree.

### General Education Requirements

None		
<u>Requirements – Min 32 credits *</u>		<u>Cr</u>
ACCT-101	Accounting Principles I	4
ACCT-102	Accounting Principles II	4
ACCT-105	Accounting with Computers	3
ACCT-110	Payroll Accounting	3
BUSN-160	Introduction to Business	3
CIS-101	Computer Concepts & Applications	4
OIS-150	Word Processing Applications	4
XXXX-xxx	Approved Electives **	7

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ACCT-101	Accounting Principles I	4/4
BUSN-160	Introduction to Business	3/3
CIS-101	Computer Concepts & Applications	4/4
XXXX-xxx	Approved Electives **	4/4
		<hr/>
		<b>15/15</b>
<b>Second Semester</b>		
ACCT-102	Accounting Principles II	4/4
ACCT-105	Accounting with Computers	3/3
ACCT-110	Payroll Accounting	3/3
OIS-150	Word Processing Applications	4/4
XXXX-xxx	Approved Electives **	3/3
		<hr/>
		<b>17/17</b>

\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

\*\* Choose 7 credits from any ACCT, BUSN, CIS, HMG, ECON, or OIS courses.  
- ACCT-100 will be accepted as an elective only if taken prior to successful completion of ACCT-101.

## Bay De Noc Community College

### Undergraduate certificate in Accounting

Program Length: 12 months

#### Students graduating on time

18% of Title IV students complete the program within 12 months<sup>1</sup>

#### Program Costs\*

\$4,840 for in-state tuition and fees

\$12,712 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

None

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

6% of students who attend this program borrow money to pay for it<sup>2</sup>

##### The typical graduate leaves with

N/A\* in debt<sup>3</sup>

##### The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

##### The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

##### Program graduates are employed in the following fields:

Tax Preparers: <http://onetonline.org/link/summary/13-2082.00>

Bookkeeping, Accounting, and Auditing Clerks: <http://onetonline.org/link/summary/43-3031.00>

Payroll and Timekeeping Clerks: <http://onetonline.org/link/summary/43-3051.00>

Brokerage Clerks: <http://onetonline.org/link/summary/43-4011.00>

Statistical Assistants: <http://onetonline.org/link/summary/43-9111.00>

Bioinformatics Technicians: <http://onetonline.org/link/summary/43-9111.01>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

# Computer Applications

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Computer Applications

Credits/Contacts Required: 32/32

Major code: 04/426

CIP Code: 520401

## Description

In today's competitive market, having proficiency in the latest productivity software tools can set you apart and demonstrate your desire to keep your technological skill-set up to date. This program is designed to assist students in developing professional-level competency with word processing, spreadsheet, presentation, and personal information management software. Students may further enhance their employability options by completing an associate degree or seeking professional certifications.

### General Education Requirements – None

### Suggested Sequences Per Semester

#### Requirements – Min 32 credits \*

		<u>Cr</u>
CIS-115	Using Microsoft Windows	3
CIS-123	Microsoft PowerPoint	1
CIS-125	Business Technology Tools	2
CIS-130	Spreadsheet Applications	3
CIS-140	Database Applications	3
CIS-240	Advanced Database Applications	3
OIS-150	Word Processing Applications	4
OIS-250	Adv. Word Processing Applications	3
XXXX-xxx	Approved Electives **	10

#### \*\* Approved Electives (Choose a min of 10 credits)

BUSN-177	Mathematics of Business	3
BUSN-195	Business Communications	3
CIS-101	Computer Concepts & Applications	4
CIS-103	Visual Basic	4
CIS-135	Introduction to Cybersecurity	2
CIS-203	Visual Basic for Applications	3
CIS-210	Web Page Design & Structure	3
CIS-215	Web Publishing	3
CIS-220	Java Programming	4
CIS-235	Mobile App Development	3
CNSS-101	Emerging Technologies	3
CNSS-130	Introduction to Networks	4
CNSS-150	A+ Computer Maintenance	4
CSCI-110	Introduction to Programming	3
CSCI-121	C++ Programming I	3

\* Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available through Testing Services. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

		<u>Cr / Ct</u>
<b>First Semester</b>		
CIS-115	Using Microsoft Windows	3/3
CIS-123	Microsoft PowerPoint	1/1
CIS-140	Database Applications	3/3
OIS-150	Word Processing Applications	4/4
XXXX-xxx	Approved Electives **	5/5
		<b>16/16</b>
<b>Second Semester</b>		
CIS-125	Business Technology Tools	2/2
CIS-130	Spreadsheet Applications	3/3
CIS-240	Adv. Database Applications	3/3
OIS-250	Adv. Word Processing Apps	3/3
XXXX-xxx	Approved Electives **	5/5
		<b>16/16</b>

# Bay De Noc Community College

## Undergraduate certificate in Computer Applications

Program Length: 12 months

[Print](#)

### Students graduating on time

**N/A\*** of Title IV students complete the program within 12 months [i](#)

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

### Program Costs\*

**\$4,840** for in-state tuition and fees

**\$12,712** for out-of-state tuition and fees

**\$1,200** for books and supplies

**\$6,130** for off-campus room and board

**\$6,130** for on-campus room and board

Other Costs

Visit website for more program cost information

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

### Students Borrowing Money

**N/A\*** of students who attend this program borrow money to pay for it [i](#)

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

### The typical graduate leaves with

**N/A\*** in debt [i](#)

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

### The typical monthly loan payment

**N/A\*** per month in student loans with **N/A\*** interest rate. [i](#)

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

### The typical graduate earns

**not provided** per year after leaving this program [i](#)

### Graduates who got jobs

**N/A\*** of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

**Program graduates are employed in the following fields:** [Data Entry Keyers](#)

### Licensure Requirements [i](#)

\*Program has no licensure requirements in any state.

### Additional Information

Date Created 4/5/2017

These disclosures are required by the U.S. Department of Education

# Corrections Officer

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Corrections Officer

Credits/Contacts Required: **16/16**

Major code: 04/432

CIP Code: 430102

## Description

The Corrections Officer Certificate is designed to meet the Michigan Department of Corrections requirement of 15 semester college credit hours needed in the process to become a certified corrections officer. Credits can ladder into the Associate in Applied Science in Corrections, the Associate in Applied Science in Law Enforcement and/or the Associate in Arts in Criminal Justice.

### Program Requirements – Min 16 credits

		<u>Cr</u>
CJUS-110	Introduction to Corrections	4
CJUS-112	Introduction to Criminal Justice	4
CJUS-212	Introduction to Law Enforcement	4
CJUS-213	The Criminal Court System	4

## Bay De Noc Community College

### Undergraduate certificate in Corrections Officer

Program Length: 6 months

#### Students graduating on time

21% of Title IV students complete the program within 6 months<sup>1</sup>

#### Program Costs\*

\$2,448 for in-state tuition and fees

\$6,384 for out-of-state tuition and fees

\$600 for books and supplies

\$3,065 for off-campus room and board

\$3,065 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

15% of students who attend this program borrow money to pay for it<sup>2</sup>

#### The typical graduate leaves with

N/A\* in debt<sup>3</sup>

#### The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

#### The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

Criminal Justice and Law Enforcement Teachers, Postsecondary: <http://onetonline.org/link/summary/25-1111.00>

First-Line Supervisors of Correctional Officers: <http://onetonline.org/link/summary/33-1011.00>

First-Line Supervisors of Police and Detectives: <http://onetonline.org/link/summary/33-1012.00>

Correctional Officers and Jailers: <http://onetonline.org/link/summary/33-3012.00>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (6 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a N/A\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Early Childhood Care & Education 2017-2018 Catalog

Award Granted Upon Completion: Certificate in Early Childhood Care & Education

Credits/Contacts Required: 32/32

Major code: 04/437

CIP Code: 190709

## Description

The certificate program is designed to introduce students to the field of early childhood care and education including health, safety, nutrition, child development, guidance, and curriculum for infants, toddlers, and preschool children. Ninety hours of practicum experience are required. All credits earned in this certificate apply toward the AAS degree in Early Childhood Care and Education.

### General Education Requirements – Min 6 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
SOCY-151	Sociology -OR-	3
SOCY-208	Marriage & the Family	

### Requirements – Min 26 credits \*

		<u>Cr</u>
CHLD-101	Foundations in Early Childhood Care & Education	3
CHLD-103	Child Development (Ages 3-8)	3
CHLD-110	Health, Safety, & Nutrition for Early Childhood	3
CHLD-120	Child Guidance	3
CHLD-125	Infant/Toddler Development & Programming *	3
CHLD-130	Curriculum Development & Assessment I *	3
CHLD-135	Introduction to Children's Literature	3
HLTH-147	First Aid/BLS for Non-Healthcare Providers	1
XXXX-xxx	Approved Electives **	4

#### \*\* Approved Electives (choose minimum of 4 cr)

ACCT-100	Practical Accounting	4
ARTS-198	Theater Practicum I	1
BUSN-160	Introduction to Business	3
CIS-120	Microsoft Word	1
ENGL-112	Sign Language I	3
FYE-101	First Year Experience	3
PHED-141	Physical Fitness: Wellness Approach	2
SOCY-151	Sociology -OR-	3
SOCY-208	Marriage & the Family	
SPAN-101	Spanish I	3

\* Courses that require observation and practicum require a physical, TB test, and criminal history check prior to the first day of class. Forms are found on Bay's website, Early Childhood Care & Education link.

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CHLD-101	Foundations in Early Childhood Care & Education	3/3
CHLD-103	Child Development (Ages 3-8)	3/3
CHLD-110	Health, Safety, & Nutrition for Early Childhood	3/3
ENGL-101	Rhetoric & Composition	3/3
XXXX-xxx	Approved Elective **	4/4
		<b>16/16</b>
<b>Second Semester</b>		
CHLD-120	Child Guidance	3/3
CHLD-125	Infant/Toddler Development & Programming *	3/3
CHLD-130	Curriculum Development & Assessment I *	3/3
CHLD-135	Introduction to Children's Literature	3/3
SOCY-151	Sociology -OR-	3/3
SOCY-208	Marriage & the Family	
HLTH-147	First Aid/BLS	1/1
		<b>16/16</b>

## Bay De Noc Community College

### Undergraduate certificate in Early Childhood Care & Education

Program Length: 12 months

#### Students graduating on time

7% of Title IV students complete the program within 12 months<sup>1</sup>

#### Program Costs\*

\$4,840 for in-state tuition and fees

\$12,712 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

16% of students who attend this program borrow money to pay for it<sup>2</sup>

The typical graduate leaves with

N/A\* in debt<sup>3</sup>

The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

Program graduates are employed in the following fields: Childcare Workers: <http://onetonline.org/link/summary/39-9011.00>

Nannies: <http://onetonline.org/link/summary/39-9011.01>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Emergency Medical Technician-Basic (EMT-Basic)

## 2017-2018 Catalog

Award Granted Upon Completion: Certificate in EMT-Basic  
 Credits/Contacts Required: **30/41**  
 Major code: 04/467

CIP Code: 510904

### Description

The goal of the EMT-Basic Certificate program is to prepare graduates to demonstrate entry level competency in delivering safe care to patients on accident scenes and on transport by ambulance to the hospital under medical directions. The EMT has the emergency skills to assess a patient's condition and manage respiratory, cardiac, trauma and many medical emergencies. To assist the student in reaching this goal, the EMT-Basic Certificate program combines general education with program specific lecture, lab, and clinical courses. Upon successful completion of the certificate program, state licensing is performed through the State of Michigan Department of Community Health Division of Emergency Medical Services. A written exam is offered by the National Registry of EMTs and must be taken for licensure. The EMT-Basic Certificate program serves as Part 1 of the Associate of Applied Science – Paramedic program. In addition to successfully completing the EMT-Basic Certificate program, students must obtain an EMT license prior to being accepted into Part 2 of the AAS Paramedic Program.

Prior to the entry: the Department of Allied Health requires students to successfully pass the following; Criminal background check, a drug test, and provide a Certification of Physical Fitness Form completed by your Physician. Along with the Certification of Fitness, students must also have proof they are immunized for specific contagious diseases, all detailed on the Certification of Fitness Form. Facilities may have additional requirements which a student would also need to meet. Students must hold an unrestricted State of Michigan Driver's License. Students are required to provide a current copy of their Michigan Department of Motor Vehicle records one awarded a seat in the program to verify student's Michigan State Driver's license is current and in good standing.

### General Education Requirements - Min 13 credits

BIOL-104	Human Biology * - OR-	4
BIOL-213&214	Anatomy and Physiology I & II** (Must take both BIOL-213 & 214 as alternative to BIOL 104)	
COMM-103	Interpersonal Communication *	3
ENGL-101	Rhetoric and Composition *	3
PSYC-201	Introduction to Psychology *	3

### Requirements – Min 17 credits

EMT-110	Basic EMT I	4
EMT-120	Basic EMT II	2
EMT-130	Ambulance Driving	1
EMT-140	Field Rescue	2
EMT-150	Basic EMT III	4
EMT-160	Basic EMT IV	2
EMT-170	Basic EMT Clinic	2

\* Course may be taken prior to acceptance into the EMT program

\*\* If BIOL-104 is not taken, then both BIOI-213 and BIOL-214 must be taken in exchange for substitution

### Suggested Sequences Per Semester

#### **First Semester**

		<u>Cr / Ct</u>
BIOL-104	Human Biology * -OR-	4/5
BIOL-213	Anatomy and Physiology 1**	
ENGL-101	Rhetoric & Composition *	3/3
EMT-110	Basic EMT I	4/4
EMT-120	Basic EMT II	2/4
PSYC-201	Introduction to Psychology	3/3

**16/19**

#### **Second Semester**

EMT-130	Ambulance Driving	1/2
EMT-140	Field Rescue	2/3
EMT-150	Basic EMT III	4/4
EMT-160	Basic EMT IV	2/4
EMT-170	Basic EMT Clinic	2/6
COMM-103	Interpersonal Communication *	3/3

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## Bay De Noc Community College

### Undergraduate certificate in Emergency Medical Technician - Basic (EMT- Basic)

Program Length: 12 months

#### Students graduating on time

N/A\* of Title IV students complete the program within 12 months<sup>1</sup>

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

#### Program Costs\*

\$6,154 for in-state tuition and fees

\$16,240 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

44% of students who attend this program borrow money to pay for it<sup>2</sup>

#### The typical graduate leaves with

N/A\* in debt<sup>3</sup>

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

Health Specialties Teachers, Postsecondary: <http://onetonline.org/link/summary/25-1071.00>

Emergency Medical Technicians and Paramedics: <http://onetonline.org/link/summary/29-2041.00>

#### Licensure Requirements<sup>6</sup>

This program meets licensure requirements in

Michigan\*

\*State requires students to sit for licensure EXAM

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a N/A\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Entrepreneurial Small Business

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Entrepreneurial Small Business

Credits/Contacts Required: **34/34**

Major code: 04/410

CIP Code: 520799

## Description

The Entrepreneurial Small Business Certificate is designed to provide students with a practical approach to learning the basics of running a business. General business theory, business operations, and communicating effectively within a business environment will be the main focus. If you desire to be your own boss, have the aptitude of a risk taker, and consider yourself a creative person, this certificate is for you!

### General Education Requirements

		None	
<u>Requirements – Min 34 credits *</u>			<u>Cr</u>
ACCT-100	Practical Accounting – <b>OR-</b>		
ACCT-101	Accounting Principles I		4
BUSN-160	Introduction to Business		3
BUSN-195	Business Communications		3
BUSN-242	Principles of Management		3
BUSN-250	Business Law I		3
BUSN-253	Marketing		3
BUSN-258	Small Business Management		3
BUSN-262	Principles of Selling		3
CIS-101	Computer Concepts & Applications		4
CIS-125	Business Technology Tools		2
ECON-120	Personal Finance – <b>OR-</b>		
ECON-131	Macroeconomics – <b>OR-</b>		
ECON-132	Microeconomics		3

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ACCT-100	Practical Accounting – <b>OR-</b>	
ACCT-101	Accounting Principles I	4/4
BUSN-160	Introduction to Business	3/3
BUSN-195	Business Communications	3/3
BUSN-250	Business Law I	3/3
CIS-101	Computer Concepts & Applications	4/4
		<u>17/17</u>
<b>Second Semester</b>		
BUSN-242	Principles of Management	3/3
BUSN-253	Marketing	3/3
BUSN-258	Small Business Management	3/3
BUSN-262	Principles of Selling	3/3
CIS-125	Business Technology Tools	2/2
ECON-120	Personal Finance – <b>OR-</b>	
ECON-131	Macroeconomics – <b>OR-</b>	
ECON-132	Microeconomics	3/3
		<u>17/17</u>

Keyboarding proficiency is necessary for the successful completion of this degree. Students may demonstrate keyboarding proficiency by successfully passing the keyboarding test available in the Student Computing Center. Students without prior keyboarding experience should enroll in OIS-090 Computer Keyboarding.

**Bay De Noc Community College**  
**Undergraduate certificate in Entrepreneurial Small Business**  
**Program Length: 12 months**

**Students graduating on time**

0% of Title IV students complete the program within 12 months<sup>1</sup>

**Program Costs\***

\$5,132 for in-state tuition and fees

\$13,496 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

**Students Borrowing Money**

25% of students who attend this program borrow money to pay for it<sup>2</sup>

**The typical graduate leaves with**

N/A\* in debt<sup>3</sup>

**The typical monthly loan payment**

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

**The typical graduate earns**

not provided per year after leaving this program<sup>5</sup>

**Graduates who got jobs**

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

**Program graduates are employed in the following fields:** Chief Executives: <http://onetonline.org/link/summary/11-1011.00>

Chief Sustainability Officers: <http://onetonline.org/link/summary/11-1011.03>

General and Operations Managers: <http://onetonline.org/link/summary/11-1021.00>

Regulatory Affairs Managers: <http://onetonline.org/link/summary/11-9199.01>

Compliance Managers: <http://onetonline.org/link/summary/11-9199.02>

Investment Fund Managers: <http://onetonline.org/link/summary/11-9199.03>

Supply Chain Managers: <http://onetonline.org/link/summary/11-9199.04>

Security Managers: <http://onetonline.org/link/summary/11-9199.07>

Loss Prevention Managers: <http://onetonline.org/link/summary/11-9199.08>

Business Teachers, Postsecondary: <http://onetonline.org/link/summary/25-1011.00>

**Licensure Requirements<sup>6</sup>**

\*Program has no licensure requirements in any state.

**Additional Information:**

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

**Footnotes:**

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Health Careers

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Health Careers

Credits/Contacts Required: 24/25

Major code: 04/460

CIP Code: 510710

## Description

This certificate lays the foundation for students interested in careers in the health care field prior to being admitted into transfer programs for a variety of health-related fields. This certificate also provides an opportunity for students to complete a co-op experience or a Certified Nursing Assistant program. To progress in the program the student must obtain a "C" or better in all program courses and their prerequisites.

Prior to the Co-op experience, the Department of Allied Health requires students to successfully pass the following: criminal background check, a drug screening, AHA CPR for the Healthcare Provider and the Certification of Physical Fitness Form completed by a physician. Along with the Certification of Fitness, students must also have proof they are immunized for specific contagious diseases. Facilities may have additional requirements, which a student would also need to meet.

The Department of Allied Health orders your background check, drug screening, and immunization tracker through [www.certifiedbackground.com](http://www.certifiedbackground.com). This Certified Background Package is billed in your first co-op semester.

### General Education Requirements - None

### Suggested Sequences Per Semester

#### Requirements – Min 24 credits

BIOL-104	Human Biology	4
CIS-101	Computer Concepts & Applications	4
ENGL-101	Rhetoric & Composition	3
HLTH-103	Safety in Health Occupations	1
HLTH-104	Clinical Skills for Health Providers	1
HLTH-110	Introduction to Medical Vocabulary	1
XXXX-XXX	Approved Electives *	10
		24

#### First Semester

BIOL-104	Human Biology	4/5
ENGL-101	Rhetoric & Composition	3/3
XXXX-xxx	Approved Elective	5/5
		12/13

#### Second Semester

CIS-101	Computer Concepts & Apps	4/4
HLTH-103	Safety in Health Occupations	1/1
HLTH-104	Clinical Skills for Health Providers	1/1
HLTH-110	Intro to Medical Vocabulary	1/1
XXXX-xxx	Approved Elective	5/5
		12/12

#### \* Approved Electives (Choose a minimum of 10 credits)

CHEM-107	Human Chemistry	4
COMM-103	Interpersonal Communications	3
FYE-101	College Success Strategies	3
HLTH-100	Careers in Health Care	1
HLTH-102	Orientation to Health Care	3
HLTH-115	Intro to Pharmacology	1
HLTH-118	Medical Terminology I	3
HLTH-119	Medical Terminology II	2
HLTH-120	Intro to Electronic Health Records	1
HLTH-135	Obtaining a Blood Specimen	2
HLTH-140	Dosage Calculation	2
HLTH-146	First Aid/BLS	1
HLTH-205	Nutrition	3
HLTH-271	Health Care Co-op	1
HLTH-272	Health Care Co-op	2
HLTH-273	Health Care Co-op	3
HLTH-274	Health Care Co-op	4
NURS-115	Nursing Assistant	5
NURS-118	Nursing Informatics	2
PHED-141	Physical Fitness: A Wellness Approach	2
PHED-144	Effective Stress Management	2

## Bay De Noc Community College

### Undergraduate certificate in Health Careers

Program Length: 12 months

#### Students graduating on time

15% of Title IV students complete the program within 12 months<sup>1</sup>

#### Program Costs\*

\$3,818 for in-state tuition and fees

\$9,968 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

28% of students who attend this program borrow money to pay for it<sup>2</sup>

The typical graduate leaves with

N/A\* in debt<sup>3</sup>

The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

Program graduates are employed in the following fields: Medical Assistants: <http://onetonline.org/link/summary/31-9092.00>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a N/A\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Mechatronics

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Mechatronics

Credits/Contacts Required: **24/24**

Major code: 04/438

CIP Code: 150403

## Description

Mechatronics is a relatively new term used to describe how computers control electrical and mechanical systems. Mechatronics is present in any automated system, from HVAC (Heating, Ventilating and Air Conditioning) systems to robotic assembly lines. The Mechatronics certificate is designed to provide an introduction to principles and basic skills used in a wide variety of fields. Students will learn the principles needed to install, maintain, and repair mechanical, electrical, control, and fluid power systems.

### Requirements – Min 24 credits

ELEC-130	Circuit Fundamentals I	4
ELEC-180	Electrical Machinery and Controls	4
ELEC-285	Fluid Power	4
XXXX-XXX	Approved Electives*	12

### **\*Approved Electives (Choose 12 credits)**

ELEC-145	Basic Process Control	4
ELEC -290	Introduction to Programmable Logic Controllers	4
MATH-102	Introduction to Technical Math	4
TECH-100	Basic Machine Tool Operation	4
TECH-101	Blueprint Reading	2
TECH-105	Materials of Industry	4
WELD-110	Introduction to Oxygen-Fuel Welding and Cutting	3
WELD-120	ARC Welding	4

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
ELEC-130	Circuit Fundamentals I	4/4
ELEC-285	Fluid Power	4/4
XXXX-xxx	Approved Elective	4/4
		<hr/>
		<b>12/12</b>
<b>Second Semester</b>		
ELEC-180	Electrical Machinery and Controls	4/4
XXXX-xxx	Approved Elective	4/4
XXXX-xxx	Approved Elective	4/4
		<hr/>
		<b>12/12</b>

## Bay De Noc Community College

### Undergraduate certificate in Mechatronics

Program Length: 12 months

#### Students graduating on time

**N/A\*** of Title IV students complete the program within 12 months<sup>1</sup>

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

#### Program Costs\*

**\$3,672** for in-state tuition and fees

**\$9,576** for out-of-state tuition and fees

**\$1,200** for books and supplies

**\$6,130** for off-campus room and board

**\$6,130** for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

**8%** of students who attend this program borrow money to pay for it<sup>2</sup>

**The typical graduate leaves with**

**N/A\*** in debt<sup>3</sup>

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

**The typical monthly loan payment**

**N/A\*** per month in student loans with **N/A\*** interest rate<sup>4</sup>.

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

**The typical graduate earns**

**not provided** per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

**N/A\*** of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

**Program graduates are employed in the following fields:**

Electro-Mechanical Technicians: <http://onetonline.org/link/summary/17-3024.00>

Robotics Technicians: <http://onetonline.org/link/summary/17-3024.01>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Office Assistant

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Office Assistant

Credits/Contacts Required: 32/33

Major code: 04/480

CIP Code: 520401

## Description

This certificate will provide students with the basic technology and communications skills needed in entry-level office positions. All courses in this certificate may also be applied to the Office Systems/Administrative Assistant Associate degree.

### General Education Requirements

None

#### Requirements – Min 32 credits \*

		<u>Cr</u>
BUSN-195	Business Communications –OR-	
ENGL-145	Technical & Report Writing	3
CIS-101	Computer Concepts & Applications •	4
CIS-123	Microsoft PowerPoint •	1
CIS-130	Spreadsheet Applications •	3
OIS-108	Document Processing •	2
OIS-117	Records Management	2
OIS-150	Word Processing Applications * • +	4
OIS-191	Business English & Proofreading +	3
OIS-250	Adv. Word Processing App • +	3
OIS-260	Office Technology & Procedures	4
XXXX-xxx	Approved Electives **	3

#### \*\* Approved Electives (Choose a minimum of 3 cr.)

CIS-115	Using Microsoft Windows	3
CIS-125	Business Technology Tools	2
CIS-140	Database Applications	3
OIS-218	Machine Transcription	2
OIS-234	Desktop Publishing & Design	4
OIS-260	Office Technology & Procedures	4

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CIS-101	Computer Concepts & Applications •	4/4
OIS-108	Document Processing *	2/3
OIS-150	Word Processing Applications * • +	4/4
OIS-191	Business English & Proofreading +	3/3
XXXX-xxx	Approved Electives **	3/3
		<hr style="width: 100%; border: 0.5px solid black;"/>
		<b>16/17</b>
<b>Second Semester</b>		
BUSN-195	Business Communications –OR-	
ENGL-145	Technical & Report Writing	3/3
CIS-123	Microsoft PowerPoint •	1/1
CIS-130	Spreadsheet Applications •	3/3
OIS-117	Records Management	2/2
OIS-250	Adv. Word Processing App • +	3/3
OIS-260	Office Technology & Procedures	4/4
		<hr style="width: 100%; border: 0.5px solid black;"/>
		<b>16/16</b>

\* Keyboarding proficiency is necessary for the successful completion of this degree. Students must complete keyboarding competency test or enroll in OIS-090, Beginning Keyboarding.

• These courses must be taken within five years of graduation to meet certificate requirements.

+ These classes are prerequisites to other courses in the program. Failure to take them in the proper sequence may delay program completion.

## Bay De Noc Community College

### Undergraduate certificate in Office Assistant

Program Length: 12 months

#### Students graduating on time

6% of Title IV students complete the program within 12 months<sup>1</sup>

#### Program Costs\*

\$4,986 for in-state tuition and fees

\$13,104 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.  
Note that this information is subject to change.

#### Students Borrowing Money

35% of students who attend this program borrow money to pay for it<sup>2</sup>

The typical graduate leaves with

N/A\* in debt<sup>3</sup>

The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

The typical graduate earns

not provided per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

Program graduates are employed in the following fields:

Executive Secretaries and Executive Administrative Assistants: <http://onetonline.org/link/summary/43-6011.00>

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive: <http://onetonline.org/link/summary/43-6014.00>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Practical Nurse

Award Granted Upon Completion:

Credits/Contacts Required: **36/52**

Major code: 04/472

2017-2018 Catalog

Certificate in Practical Nursing

CIP Code: 513901

## Description

The certificate program in Practical Nursing (P.N.) is designed to prepare students who can demonstrate entry-level competencies as practical nurses. Graduates of the program meet the educational requirements to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN). Students learn how to provide basic nursing care to all age groups. The curriculum includes background in the biological sciences, the social sciences, general education, and nursing theory. Students receive supervised clinical experiences in hospitals, home health care agencies, long term care facilities, and physicians' offices. Students attend this program on a full time basis. Students who successfully complete the program requirements are awarded a Practical Nursing Certificate.

## General Education Requirements

		<b>Cr</b>
BIOL-213	Anatomy & Physiology I*	4
BIOL-214	Anatomy & Physiology II*	4
ENGL-101	Rhetoric & Composition *	3
PSYC-201	Introduction to Psychology *	3
<b>Requirements – Min 27 credits</b>		
HLTH-140	Dosage Calculations *	2
NURS-101	Nursing Fundamentals	2
NURS-102	Nursing Fundamentals Lab	2
NURS-107	Nursing Fundamentals Clinic	2
NURS-114	PN Pharmacology I	2
NURS-117	Pharmacology II	2
NURS-127	PN Adult Health Nursing	4
NURS-128	PN Adult Health Nursing Clinic	2
NURS-141	PN Family Nursing**	4

\*These courses may be taken prior to acceptance in program on a space available basis

\*\*If any part of this course is failed, it is necessary to retake and pay for the entire course.

## PRACTICAL NURSE CERTIFICATE

### Fall Semester

BIOL-213	Anatomy & Physiology I*	4/5
NURS-114	PN Pharmacology I	2/2
NURS-101	Nursing Fundamentals	2/2
NURS-102	Nursing Fundamentals Lab	2/6
HLTH-140	Dosage Calculation*	2/2
		<b>12/17</b>

### Winter Semester

BIOL-214	Anatomy & Physiology II*	4/5
NURS-107	Fundamentals Clinic	2/6
NURS-117	Pharmacology II	2/2
NURS-127	PN Adult Health Nursing	4/4
NURS-128	PN Adult Health Nursing Clinic	2/6
		<b>14/23</b>

### Third Semester

NURS-141	PN Family Nursing**	4/6
ENGL-101	Rhetoric & Composition*	3/3
PSYC 201	Intro to Psychology*	3/3
		<b>10/12</b>

Entry level Licensed Practical Nurses may find employment in a variety of practice settings, including but not limited to: acute care hospitals, long term and extended term care facilities, clinics, and physician's offices. Jobs in most areas of nursing are plentiful, and employment rate is near 100%. The reported average yearly income in the state of Michigan is approximately \$42,000 for Licensed Nurses (U.S. Department of Labor, Bureau of Labor Statistics). Graduates may transfer all or part of credit/contact hours earned at Bay to several colleges and universities to pursue an Associate of Applied Science (A.D.N.) or Bachelor of Science in Nursing (B.S.N.) degree.

All students accepted into the Nursing program are required to purchase uniforms and liability insurance. The college makes arrangements for liability insurance. Prior to Fall entrance into the program, the Department of Allied Health requires students to successfully pass the following; criminal background check, a drug test, American Heart Association CPR Certification for the Healthcare Provider, and the Certification of Physical Fitness Form completed by your Physician. Along with the Certification of Fitness, students must also have proof they are immunized for specific contagious diseases. Facilities may have additional requirements, which a student will also need to meet. The Department of Allied Health orders your background check, drug screening and immunization tracker through [www.certifiedprofile.com](http://www.certifiedprofile.com). This Certified Profile Package is billed in your first semester tuition.

Throughout the Practical Nurse program, students are required to take a variety of standardized learning assessments, which Bay College School of Nursing obtains via Health Education Systems, Inc. (HESI), a national testing company. The cost for this testing is incurred by the students as an assessment fee charged over two semesters. Students will be scheduled to take HESI tests when they enter the program, throughout the program, and at program completion.

**The PN Certificate Program is offered at the Escanaba Campus and at the Iron Mountain Campus every fall semester.**

# Bay De Noc Community College

## Undergraduate certificate in Practical Nurse

Program Length: 12 months

[Print](#)

### Students graduating on time

**52%** of Title IV students complete the program within 12 months [i](#)

### Program Costs\*

**\$8,490** for in-state tuition and fees

**\$22,512** for out-of-state tuition and fees

**\$1,200** for books and supplies

**\$6,130** for off-campus room and board

**\$6,130** for on-campus room and board

[Other Costs](#)

[Visit website for more program cost information](#)

\*The amounts shown above include costs for the entire program, assuming normal time to completion. Note that this information is subject to change.

### Students Borrowing Money

**28%** of students who attend this program borrow money to pay for it [i](#)

#### The typical graduate leaves with

**\$14,951** in debt [i](#)

#### The typical monthly loan payment

**\$172** per month in student loans with **6.8%** interest rate. [i](#)

#### The typical graduate earns

**\$36,782** per year after leaving this program [i](#)

### Graduates who got jobs

**N/A\*** of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

[Licensed Practical and Licensed Vocational Nurses](#)

### Licensure Requirements [i](#)

This program meets licensure requirements in

**Michigan\***

\*State requires students to sit for licensure exam

### [Additional Information](#)

Date Created 4/7/2017

These disclosures are required by the U.S. Department of Education

# Private Security

2017-2018 Catalog

Award Granted Upon Completion:

Certificate in Private Security

Credits/Contacts Required: **28/28**

Major code: 04/434

CIP Code: 430109

## Description

The Private Security certificate is designed to provide students with entry-level education and training designed to enhance employability in the field of private security. The goal of this certificate is to provide students with the basic academic course work and hands-on training that will present them as superior candidates for careers in the private security field.

### Requirements – Min 28 credits

		<u>Cr</u>
BUSN-250	Business Law I	3
CJUS-112	Introduction to Criminal Justice	4
CJUS-115	Introduction to Security	4
CJUS-130	Private Security Academy	6
CJUS-214	Introduction to Criminal Investigation	4
CJUS 224	Emergency Preparedness / Crisis Management	4
CNSS-110	Information Security Principles	3

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
CJUS-112	Introduction to Criminal Justice	4/4
CNSS-110	Information Security Principles	3/3
BUSN-250	Business Law I	3/3
CJUS-115	Introduction to Security	4/4
		<u>14/14</u>
<b>Second Semester</b>		
CJUS-214	Introduction to Criminal Investigation	4/4
CJUS-224	Emergency Preparedness / Crisis Management	4/4
CJUS-130	Private Security Academy	6/6
		<u>14/14</u>

## Bay De Noc Community College

### Undergraduate certificate in Private Security

Program Length: 12 months

#### Students graduating on time

**N/A\*** of Title IV students complete the program within 12 months<sup>1</sup>

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

#### Program Costs\*

**\$2,142** for in-state tuition and fees

**\$5,586** for out-of-state tuition and fees

**\$1,200** for books and supplies

**\$6,130** for off-campus room and board

**\$6,130** for on-campus room and board

Other Costs:

No other costs provided.

Visit website for more program cost information: [www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx](http://www.baycollege.edu/Admissions/Paying-for-College/Financial-Aid/Cost-of-Attendance.aspx)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

#### Students Borrowing Money

**N/A\*** of students who attend this program borrow money to pay for it<sup>2</sup>

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

#### The typical graduate leaves with

**N/A\*** in debt<sup>3</sup>

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical monthly loan payment

**N/A\*** per month in student loans with **N/A\*** interest rate<sup>4</sup>.

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical graduate earns

**not provided** per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

**N/A\*** of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

Criminal Justice and Law Enforcement Teachers, Postsecondary: <http://onetonline.org/link/summary/25-1111.00>

Transit and Railroad Police: <http://onetonline.org/link/summary/33-3052.00>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/5/2017

These disclosures are required by the U.S. Department of Education

#### Footnotes:

<sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).

<sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.

<sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.

<sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.

<sup>5</sup> The median earnings of program graduates who received Federal aid.

<sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.

<sup>7</sup> State Job Placement Rate: N/A

<sup>8</sup> Accreditor Job Placement Rate: N/A

# Sustainability

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Sustainability

Credits/Contacts Required: **30/31**

Major code: 04/441

CIP Code: 030299

## Description

In this certificate program, students will explore the dynamic relationship between humans and their environment from cultural, economic, historical, literary, social, scientific, and technology perspectives, as well as acquire foundation skills in communications and mathematics. Courses in this certificate will explore the unifying theme of sustainability from a multidisciplinary perspective preparing students to face the challenges of global citizenship in the twenty-first century. Sustainability represents hope for the future as we face the challenge of “meeting the needs of the present without compromising the ability of future generations to meet their own needs” (as described in the American Association of Community Colleges’ *Resolution in Support of Education for Sustainable Development*, November, 2007). The Sustainability Certificate is a valuable adjunct to any AA, AS, or AAS degree. It will assist students to stand out from their peers in the competitive employment market. This certificate is especially valuable for students majoring in business, technology, education, natural resources, or any field at the forefront of the sustainability revolution.

### General Education Requirements – Min 30 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective	3
	ENGL-102 or 145; COMM-103, 104, or 120	
MATH-210	Introduction to Statistics	4
BIOL-107	Environmental Science	3
BIOL-108	Environmental Science Lab	1
XXXX-xxx	Additional Science Elective: * CHEM, PHYS, <b>-OR-</b> GEOG- 110	4-5
ECON-132	Microeconomics	3
POLI-262	State & Local Government	3
XXXX-xxx	Humanities Electives **	6

### Suggested Sequences Per Semester

		<u>Cr / Ct</u>
<b>First Semester</b>		
BIOL-107	Environmental Science	3/3
BIOL-108	Environmental Science Lab	1/2
ENGL-101	Rhetoric & Composition	3/3
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Humanities Elective **	3/3
		<hr/> <b>14/15</b>
<b>Second Semester</b>		
ECON-132	Microeconomics	3/3
POLI-262	State & Local Government	3/3
XXXX-xxx	Communication Elective	3/3
XXXX-xxx	Humanities Elective **	3/3
XXXX-xxx	Natural Science Elective *	4-5/4-7
		<hr/> <b>16-17/16-19</b>

\* Choose from any CHEM, PHYS, or GEOG course on the General Education List.

\*\* Choose two (2) Courses.

- To meet MTA, must be chosen from two different categories.

- ANTH-201, HIST-101 or HIST-102, and PHIL-204 are recommended as Humanities courses, but students may select others as their interests vary.

# Bay De Noc Community College

## Undergraduate certificate in Sustainability

Program Length: 12 months

[Print](#)

### Students graduating on time

**N/A\*** of Title IV students complete the program within 12 months [i](#)

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

### Program Costs\*

**\$4,694** for in-state tuition and fees

**\$12,320** for out-of-state tuition and fees

**\$1,200** for books and supplies

**\$6,130** for off-campus room and board

**\$6,130** for on-campus room and board

[Other Costs](#)

[Visit website for more program cost information](#)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.

Note that this information is subject to change.

### Students Borrowing Money

**N/A\*** of students who attend this program borrow money to pay for it [i](#)

\*Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

#### The typical graduate leaves with

**N/A\*** in debt [i](#)

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical monthly loan payment

**N/A\*** per month in student loans with **N/A\*** interest rate. [i](#)

\*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

#### The typical graduate earns

**not provided** per year after leaving this program [i](#)

### Graduates who got jobs

**N/A\*** of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

[Forestry and Conservation Science Teachers, Postsecondary](#)

### Licensure Requirements [i](#)

\*Program has no licensure requirements in any state.

#### [Additional Information](#)

Date Created 4/5/2017

These disclosures are required by the U.S. Department of Education

# Welding

2017-2018 Catalog

Award Granted Upon Completion: Certificate in Welding

Credits/Contacts Required: **33/45**

Major code: 04/485

CIP Code: 480508

## Description

This program provides the student with specialized classroom and shop experiences concerned with all types of metal welding, brazing, and flame cutting. The Certificate Program provides individuals with a wide array of skills applicable to construction welding, ship building, fitting, and industrial and production welding.

**Equipment: Students are required to purchase safety glasses, gloves, cutting goggles, leather boots, helmet, striker, pliers, tip cleaners, and to wear overalls or denim type clothing.**

### General Education Requirements

None

### Requirements – Min 33 credits

	<u>Cr</u>
MATH-102 Introduction to Technical Math	4
TECH-100 Basic Machine Tool Operation	4
TECH-101 Blueprint Reading	2
TECH-105 Materials of Industry	4
WELD-110 Introduction to Oxygen – Fuel Welding & Cutting	3
WELD-120 Arc Welding	4
WELD-210 Advanced Arc Welding	4
WELD-220 Gas Metal Arc Welding (MIG)	4
WELD-260 Gas Tungsten Arc Welding (TIG)	4

NOTE: The following classes are not part of the certificate program, but are offered for those who are interested in pursuing a career in the pipe welding field.

WELD-240 Basic Pipe Welding	4/6
WELD-280 Advanced Pipe Welding	4/6

### Suggested Sequences Per Semester

#### **First Semester**

MATH-102 Introduction to Technical Math	4/4
TECH-101 Blueprint Reading	2/3
WELD-110 Introduction to Oxygen – Fuel Welding & Cutting	3/4
WELD-120 Arc Welding	4/6
WELD-220 Gas Metal Arc Welding (MIG)	4/6
	<hr/>
	<b>17/23</b>

#### **Second Semester**

TECH-100 Basic Machine Tool Operation	4/6
TECH-105 Materials of Industry	4/4
WELD-210 Advanced Arc Welding	4/6
WELD-260 Gas Tungsten Arc Welding (TIG)	4/6
	<hr/>
	<b>16/22</b>

**Cr / Ct**

**16/22**

## Bay De Noc Community College

### Undergraduate certificate in Welding

Program Length: 12 months

#### Students graduating on time

6% of Title IV students complete the program within 12 months<sup>1</sup>

#### Program Costs\*

\$6,738 for in-state tuition and fees

\$17,808 for out-of-state tuition and fees

\$1,200 for books and supplies

\$6,130 for off-campus room and board

\$6,130 for on-campus room and board

Other Costs:

Students are required to purchase safety glasses, gloves, cutting goggles, leather boots, helmet, striker, pliers, tip cleaners, and to wear overalls or denim type clothing. Estimated cost: \$638

Visit website for more program cost information:

[/mybay.baycollege.edu/ics/portletview/Current\\_Students/Billing/Tuition\\_Fees/Default\\_Page.jnz](http://mybay.baycollege.edu/ics/portletview/Current_Students/Billing/Tuition_Fees/Default_Page.jnz)

\*The amounts shown above include costs for the entire program, assuming normal time to completion.  
Note that this information is subject to change.

#### Students Borrowing Money

23% of students who attend this program borrow money to pay for it<sup>2</sup>

#### The typical graduate leaves with

N/A\* in debt<sup>3</sup>

#### The typical monthly loan payment

N/A\* per month in student loans with N/A\* interest rate<sup>4</sup>.

#### The typical graduate earns

\$32,208 per year after leaving this program<sup>5</sup>

#### Graduates who got jobs

N/A\* of program graduates got jobs

\*We are not currently required to calculate a job placement rate for program completers.

#### Program graduates are employed in the following fields:

Welders, Cutters, and Welder Fitters: <http://onetonline.org/link/summary/51-4121.06>

Solderers and Brazers: <http://onetonline.org/link/summary/51-4121.07>

Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders: <http://onetonline.org/link/summary/51-4122.00>

#### Licensure Requirements<sup>6</sup>

\*Program has no licensure requirements in any state.

#### Additional Information:

No additional notes provided.

Date Created: 4/7/2017

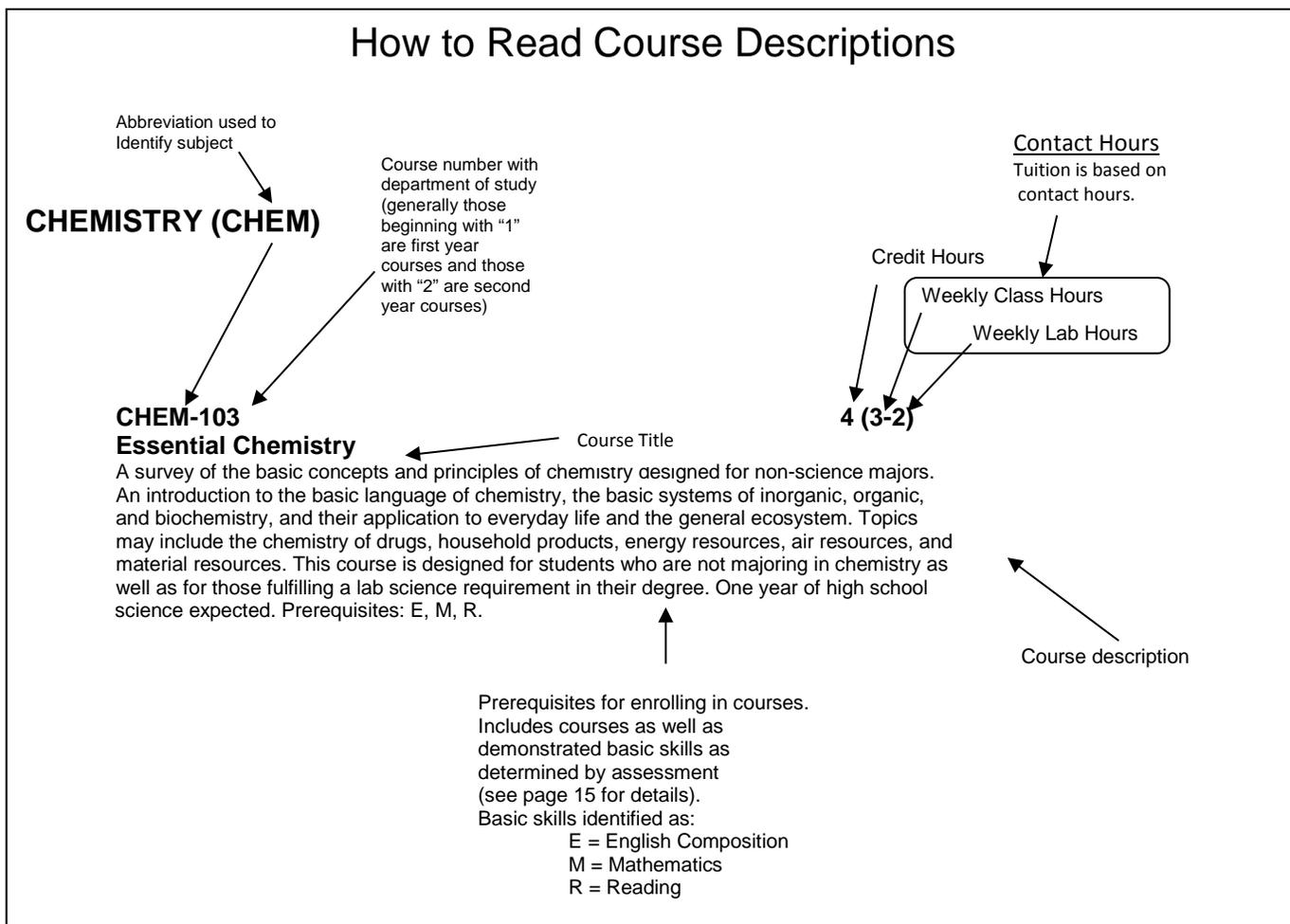
These disclosures are required by the U.S. Department of Education

#### Footnotes:

- <sup>1</sup> The share of students who completed the program within 100% of normal time (12 months).
- <sup>2</sup> The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.
- <sup>3</sup> The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.
- <sup>4</sup> The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA\* interest rate.
- <sup>5</sup> The median earnings of program graduates who received Federal aid.
- <sup>6</sup> Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States.
- <sup>7</sup> State Job Placement Rate: N/A
- <sup>8</sup> Accreditor Job Placement Rate: N/A

# Course Descriptions

This section contains a description of all course offerings. In using this course list, students should note the following:



## ACCT-ACCOUNTING

### ACCT-100 4 (4-0)

#### Practical Accounting

A course for non-accounting majors to familiarize students with small business accounting or for students desiring a practical knowledge of principles before ACCT-101. The course covers the complete accounting cycle of both mercantile and personal services enterprises. It is designed to provide a better understanding of business procedures and the accounting phase of business. This course is used as a requirement or elective depending on degree requirements.

### ACCT-101 4 (4-0)

#### Accounting Principles I

This course introduces concepts and techniques basic to the solution of record keeping problems of a business enterprise. It deals with the methods of recording, reporting, and interpreting the financial data of the business unit. Topics include adjusting entries, closing entries, cash control, receivables, inventory, fixed assets and current liabilities. Prerequisite: R, M.

### ACCT-102 4 (4-0)

#### Accounting Principles II

This course covers accounting for corporations, investments and cash flows. In addition, the students are introduced to managerial accounting concepts. Topics include standard costs, job and process costing, budgeting and financial statement analysis. Prerequisite: "C" or better in ACCT-101.

### ACCT-105 3 (3-0)

#### Accounting with Computers

A course designed to teach students how to perform the accounting cycle with QuickBooksPro software. This course covers the complete accounting cycle and includes computerization of accounts receivable, accounts payable, and payroll. Prerequisite: ACCT-101.

### ACCT-110 3 (3-0)

#### Payroll Accounting

Payroll Accounting provides an in-depth study of payroll procedures. Included are a discussion of employees and independent contractors, how to calculate gross wages for hourly and salaried employees, mandatory and voluntary withholdings, employer taxes, record payroll, and state and federal record keeping requirements. Current tax rates and current tax forms will be used. Completion of a payroll practice set is required. Prerequisite: ACCT-100 or ACCT-101.

### ACCT-210 4 (4-0)

#### Intermediate Accounting I

This course covers the accounting process and basic concepts and principles, the definition and measurement of assets, measuring revenue expense and period-end adjustments in determining net income. Course objectives: to provide students with the knowledge of the intricate treatment of assets in an accounting system, to enable students to analyze accounting statements, and to provide students with the capability of dealing with the detailed and varied accounting procedures that pertain to assets and their adjustments. Prerequisite: ACCT-102 with a "C" or better. Offered in the Fall semester.

### ACCT-211 4 (4-0)

#### Intermediate Accounting II

This course covers the definition and measurement of liabilities and capital, financial statement analysis, treatment of accounting errors. Course objectives: to provide students with the knowledge of the intricate treatment of liabilities and capital accounts in the accounting system, to provide students with the capability of dealing with the detailed and varied accounting procedures as they pertain to liabilities and capital accounts. Prerequisite: ACCT-102 with a "C" or better. Offered in the Winter semester.

### ACCT-215 4(4-0)

#### Cost Accounting I

This course covers the objectives, systems, and techniques of cost accounting, the process, job order, and standard cost system, managerial use of cost information for profit planning, control, and decision-making. Course objectives: to familiarize the student with cost accounting objectives and systems, to provide the student with the capability of working with process costs, job order costs, and standard cost processes, to develop a knowledge of how to budget and plan utilizing cost accounting data. Prerequisite: ACCT-102. Offered in the Fall semester.

### ACCT-216 4(4-0)

#### Taxation I

A course covering an overview of federal and state personal income tax. An introduction to corporate and business taxes, including sales and use taxes, as well as payroll tax forms and regulations. Offered in Fall semester.

### ACCT-272 3

#### Accounting Co-op

Students who have substantially completed the requirements for the two-year associate degree in accounting are provided with an opportunity to earn credit by working in an approved accounting job situation. Co-op education means working for pay under the guidelines of the co-op education program at Bay College. Some internships (non-pay) positions may occasionally be available. Prerequisites: ACCT-210, 2.75 GPA in Accounting, and approval of division chairperson.

**Co-ops may require that the student pass a criminal background check.**

## ANTH-ANTHROPOLOGY

### ANTH-201 3 (3-0)

#### Introduction to Cultural

#### Anthropology

This course will present a broad understanding of the field of cultural anthropology that includes world cultures, ethnicity and race, language, political systems, gender, marriage, religion, art, and an appreciation of the breadth and complexity of the human condition. Also included will be research ethics and methods. Meets Humanities and Social & Behavioral Science requirement. Prerequisite: R

### ANTH-201H 3 (3-0)

#### Introduction to Cultural

#### Anthropology-Honors

This course will present a broad understanding of the field of cultural anthropology that includes world cultures, ethnicity and race, language, political systems, gender, marriage, religion, art, and an appreciation of the breadth and complexity of the human condition. Also included will be research ethics and methods. Meets Humanities and Social & Behavioral Science requirement. This is an Honors course which requires additional work and academic rigor. Prerequisite: R and acceptance into the Honors Program.

## ARTS-FINE ARTS

### ARTS-101 4 (4-0)

#### Introduction to Art Design

An introductory course with an emphasis on the three-dimensional aspects of art. Experimentation with varied media directed towards expressive ends in the third dimension or sculptured form. Normally offered in Winter semester

### ARTS-112 3(1-2)

#### Moldmaking for Glass I

The course will examine and explore the open faced mold and Pate de Verre or lost wax casting methods using various plaster formulas and properties, glass chemistry, molding materials, and glass history. During the course, students will design and create their own glass pieces through these processes.

### ARTS-115 4 (4-0)

#### Drawing I

A two-dimensional course for the student interested in drawing. The course will develop in the student the fundamental techniques of drawing. The student will work with various materials and subjects. Emphasis will be placed on developing a process of drawing which the student can use later by herself/himself. Normally offered in Fall semester.

### ARTS-117 4(2-2)

#### Digital Photography I

The purpose of this course is to teach students to become good photographers, using the camera and editing tools to convey ideas and vision in artistic ways. Through a mixture of technical instruction, shooting, classroom critique and aesthetic principles, students will learn to communicate through the medium of photography.

### ARTS-118 4(4-0)

#### Introduction to Graphic

#### Communication

This is an introduction into graphic communication concepts. This course will focus on design and aesthetics as well as the productive and technological aspects of the industry. Prerequisite: ARTS 175 with a C or better or permission of instructor.

### ARTS-120 4 (4-0)

#### Painting I

This studio class gives the student a working knowledge of the materials and processes involved in painting. It also develops ways of thinking about painting as self-expression. The student may choose to work in more than one medium.

**ARTS-126** 4 (4-0)  
**Digital Cinema I**  
 This is an introduction to the physical aspects of digital video production and the narrative structure developments from cinematic history. Screenings emphasize narrative features and shorts. Equipment is provided.

**ARTS-130** 4 (4-0)  
**Ceramics I**  
 A studio class in which the student will work in both hand-building and wheel methods of forming clay. Various methods of decorating, glazing, and firing pots and sculptures will be included.

**ARTS-163** 3 (3-0)  
**Theater Appreciation**  
 This course is designed to help students develop an awareness and appreciation of theater art and its place in human culture. It incorporates the study of theatrical styles, history, literature as well as live and recorded performances. Aspects of dramatic structure, acting, directing, theater design, and play production will be explored through reading, lecture, and activities. Visits by guest artists and participation in college productions will aid in understanding this creative process. Meets the Humanities requirement.

**ARTS-163H** 3(3-0)  
**Theater Appreciation - Honors**  
 This course is designed to help students develop an awareness and appreciation of theater art and its place in human culture. It incorporates the study of theatrical styles, history, literature as well as live and recorded performances. Aspects of dramatic structure, acting, directing, theater design, and play production will be explored through reading, lecture, and activities. Visits by guest artists and participation in college productions will aid in understanding this creative process. Meets the Humanities requirement. This is an Honors course which requires additional work and academic rigor. Prerequisite: Acceptance into the Honors Program.

**ARTS-175** 4 (2-2)  
**Introduction to Visual Structures**  
 The study of artistic terminology in relation to visual perception and communication. Study of artistic impression, color and patterns, and their use will be highlighted. Students will demonstrate these principles with the use of digital software and hardware. Normally offered in Fall semester.

**ARTS-180** 3(3-0)  
**Acting 1**  
 This course is designed to provide the student with the fundamentals for studying the craft of acting. Students will explore this process, and discipline, through readings, lecture, exercises, and scene work. The goal is the development of performance skills and techniques as well as a deeper appreciation of theater. Prerequisite: Prior, or current, enrollment in ARTS 163, or permission of instructor.

**ARTS-198** 1 (0-20)  
**Theater Practicum I**  
 Practical work in dramatics by special arrangement with the instructor, in the following areas: Acting, directing, scene construction/ painting, running crew, lights, sound, costumes, make-up, stage management, props, publicity, house management, technical design, or individual activities as directed by the instructor.

**ARTS-199** 1(0-20)  
**Theater Practicum II**  
 Practical work in dramatics by special arrangement with the instructor, in the following areas: Acting, directing, scene construction/ painting, running crew, lights, sound, costumes, make-up, stage management, props, publicity, house management, technical design, or individual activities as directed by the instructor.

**ARTS-204** 3(3-0)  
**Art History to 1300**  
 A chronological study of painting, sculpture, and architecture from the prehistoric times through the Gothic period. Emphasis is on the style, iconography, and historical context of works. Students will develop an understanding and appreciation of both the art and the society which produced it. Meets Humanities requirement. Prerequisite: R.

**ARTS-207** 3 (3-0)  
**Art History 1300 to Present**  
 A chronological study of painting, sculpture, and architecture from the Renaissance to contemporary times. Emphasis is on the style, iconography, and historical/social context of works. Students will develop an understanding and appreciation of both the art and the times which produced it. ARTS-204 is not required. Meets Humanities requirement. Prerequisite: R.

**ARTS-215** 4 (4-0)  
**Drawing II**  
 This course offers the student an opportunity to build upon the drawing skills begun in Drawing I in a studio environment. Students will be encouraged to choose individual projects in pursuit of personal artistic goals, as well as exploring new materials and techniques. Prerequisite: ARTS-115 with "C" or better.

**ARTS-217** 4(2-2)  
**Digital Photography II**  
 This course continues students' exploration into the artistic medium of photography. Students will continue to learn aesthetic principles about light, composition, and form, as well as deepen their knowledge of editing software. Prerequisite: ARTS-117 with a "C" or better or permission of the instructor.

**ARTS-218** 4(4-0)  
**Graphic Communication II**  
 This course is a continuation of graphic communication concepts. It will focus on the principle of letterform and typography as a form of communication in graphic design. Students will blend self-created fonts, content specific material, and color theory to create communicative messages. Prerequisite: ARTS-118.

**ARTS-220** 4 (4-0)  
**Painting II**  
 Painting II is designed to give continued experience to students who have demonstrated the seriousness of their intention to learn to paint. In this class, each student will concentrate on one medium of her/his choice and will do a planned series of projects of increasing complexity.

**ARTS-226** 4 (4-0)  
**Digital Cinema II**  
 This course continues the development of digital video production skills and knowledge emphasizing experimental and documentary narrative video production. Documentary projects will include a rhetorical statement that will investigate a specific social concern. Equipment is provided. Prerequisite: ARTS 126

**ARTS-230** 4 (4-0)  
**Ceramics II**  
 A studio class building on the basic techniques learned in Ceramics I. Developing more advanced techniques in sculpture, potter's wheel, kiln construction, and glaze calculation will be the focus of Ceramics II. Prerequisite: ARTS-130.

**ARTS-260** 4 (4-0)  
**Installation/Performance Art**  
 Students will explore how installation, performance and interventions can demonstrate an idea or experience, implicate the viewer, address location specifically (and non-specifically) and shift an audience's perception of time and/or space. The class will introduce students to some of the concepts in the history of installation and current shifts in the definition of installation art and the emergence of actions and interventions

**ARTS-271** 1-8  
**ARTS-272** 1-8  
**ARTS-273** 1-8  
**ARTS-274** 1-8

**ARTS Co-op Internship**  
 The art internship is a practicum designed to provide professional gallery experience and its operations from a variety of viewpoints. Interns may be assigned to the following departments: curatorial, collection education, or communications/marketing. Prerequisite: Permission from Instructor.

## AUTO-AUTOMOTIVE TECHNOLOGY

**AUTO-100** 5 (3-5)  
**Automotive Engines**  
 The objective of this course is to provide the theoretical background necessary to understand the operation of the internal combustion engine. Students will have the opportunity to use the special tools and equipment necessary for servicing engines.

**AUTO-110** 5 (3-5)  
**Automotive Brakes**  
 This course is designed to present to the student the basic theory of operation of automotive brake systems. The course will include how to use electronic service information, suggested manufacturer service procedures, and the proper use of special tools to service present automotive brake systems. Co-requisite: AUTO-120.

**AUTO-120** 5 (4-4)  
**Automotive Electrical I**  
 This course is designed as an overview of automotive electrical/electronic systems. Instruction and lab activities will build from basic electrical principles through microprocessor controls. The use of a variety of electrical measurement, diagnostic equipment, and wiring diagrams are an essential part of this course.

**AUTO-130** 4 (2-4)  
**Automotive Standard  
Transmissions & Power Trains**  
The primary objective of this course is intended to provide the student with a fundamental understanding of the automotive power train. Students will use reference manuals, hand tools, and specific equipment in working with transaxles, transmissions, universal joints, CV joints, and differentials.

**AUTO-140** 5 (3-5)  
**Automotive Engine Performance I**  
The objective of this course is to provide the student with a basic understanding of the theory and operation of ignition and fuel systems. Emphasis is placed on the study of specific functions in structure and servicing of modern ignition and fuel systems. Co-requisite: AUTO-120.

**AUTO-150** 5 (3-5)  
**Automotive Suspension & Steering**  
Using special tools and equipment, this course presents the basic theory of operation, servicing automotive suspension and steering, and four-wheel alignment.

**AUTO-200** 5 (3-5)  
**Automotive Engine Performance II**  
This course is a continuation of AUTO-140. It is an introduction to information and diagnosis of engine emissions and performance conditions related to basic mechanical, fuel injection, engine management, and ignition systems. The course includes theory of system operation with an emphasis on systematic troubleshooting. There will be hands-on exercises and special tool usage, including scan tools, dvom, inductive ammeter, exhaust gas analyzer, engine/ignition secondary analyzer and signal scopes. Prerequisite: AUTO-120 & AUTO-140.

**AUTO-220** 5 (3-5)  
**Automotive Electrical II**  
An in-depth study of the operation, diagnosis, and repair of automotive body and chassis electrical/electronic systems. Includes the study of lighting, wiper-washer, power window/seat/door locks, instrumentation, inflatable restraints, cruise control, anti-theft, suspension/steering, and audio systems. Course content will also include a study of the operation, testing, diagnosis and service of automotive battery, charging, and cranking systems. Prerequisite: AUTO-120.

**AUTO-230** 5 (2-6)  
**Automatic Transmissions**  
This course is designed to present to the student the basic theory of operation of automatic transmissions. Through the use of training transmissions, the student will disassemble, inspect, measure, test, adjust, and reassemble these training transmissions according to the manufacturer specifications. Prerequisite: AUTO-130.

**AUTO-270** 3 (2-2)  
**Automotive HVAC Systems**  
Automotive Heating, Ventilation, and Air Conditioning. In - depth study of automotive heating, ventilation, and air conditioning systems. The course includes theory of operation, diagnosis, and repair of HVAC systems. Environmental safety issues are stressed including laws and regulations, CFC recovery and recycling, ozone depletion, and new, environmentally safe systems. Computerized automatic temperature controlled systems are also covered. Prerequisite: AUTO-120.

**AUTO-272** 6 (0-6)  
**Automotive Service Co-op**  
This cooperative work experience is designed to provide the student with on-the-job training opportunities. Prerequisites: Completion of two semesters of the Automotive Technology Program, a valid drivers license, and instructor recommendation.  
**Co-ops may require that the student pass a criminal background check.**

## **BIOL-BIOLOGY**

**BIOL-090** 3 (3-0)  
**Fundamentals of Biology**  
Developmental in nature, this course is designed to familiarize those students who have weak backgrounds in high school science with the world of science in general and human biology in particular. Being developmental, this course does not fulfill requirements toward any degree. Normally offered once a year.

**BIOL-103** 4 (3-2)  
**Essential Biology**  
This course is a single semester survey of the most important biological concepts and issues relevant to life on earth including evolution, genetics, and ecology. It is designed to fulfill general education requirements for non-science, liberal arts majors. If you plan to transfer to a four year institution and major in engineering, social science, computer science, or any basic or applied physical or life science, you should you should take BIOL-110 and 112 instead of this course. (Note: There are no dissections in the lab). Prerequisite: E, M, R. Students will benefit from having had a least one year of natural science in high school or BIOL-090. Offered each semester.

**BIOL-104** 4 (3-2)  
**Human Biology**  
This course emphasizes human structure and function at the chemical, cellular, tissue, organ, organ system, and organismal levels. It is designed primarily for the social scientist and to fulfill general education requirements for non-science, liberal arts majors. It typically does not transfer for credit as part of a biology major. (Note: Dissections are a required part of the lab. Students will benefit from having had at least one year of natural science in high school or BIOL-090). Prerequisites: E, R.. Offered each semester.

**BIOL-107** 3 (3-0)  
**Environmental Science**  
This course provides a broad introduction to natural systems, ecological concepts, and the social and cultural institutions that affect human interactions with the natural world. It presents an interdisciplinary perspective on current environmental issues while developing analytical and problem solving skills. To meet natural science lab requirements for A.A. or A.S. degrees, and for many transfer programs, BIOL-107 should be taken concurrently with BIOL-108, Environmental Science Lab. Prerequisite: E, M, R. Students will benefit from having had at least one year of natural science in high school or BIOL-090. Offered each semester.

**BIOL-108** 1 (0-2)  
**Environmental Science Lab**  
This course provides lab experiences associated with BIOL-107. When possible, BIOL-108 should be taken concurrently with BIOL-107.

**BIOL-110** 4 (3-3)  
**Evolution & Diversity**  
This course surveys the diversity of life with an emphasis on evolutionary theory, ecology, patterns of inheritance, and population genetics. It is intended for all students with a strong interest in the life sciences. It is recommended for students planning to transfer to a four year institution and major or minor in a life science, engineering, social science, computer science, or any physical science. Prerequisite: E, M, R. Students will benefit from having had at least two years of natural science in high school (including biology and chemistry). This course and its companion, BIOL-112, can be taken in any order. It is recommended that students have a minimum ACT science score of 20. Offered Fall semester.

**BIOL-112** 4 (3-3)  
**Cells & Molecules**  
This course focuses on the structural, physiological, and genetic characteristics of cells. Topics covered include the chemistry of life, cell structure and function, cell physiology, respiration, photosynthesis, molecular genetics, and biotechnology. It is intended for all students with a strong interest in the life sciences. It is recommended for students planning to transfer to a four year institution and major or minor in a life science, engineering, social science, computer science, or any physical science. Prerequisite: E, R, CHEM-110. Students will benefit from having had at least two years of natural science in high school, including biology and chemistry. This course and its companion BIOL-110 can be taken in any order. It is recommended that students have a minimum ACT science score of 20. Offered Winter semester.

**BIOL-202** 4 (3-3)  
**Plants & Animals**  
This course emphasizes a comparative study of plant and animal anatomy and physiology. Plant topics covered will include structure, growth, transport, nutrition, reproduction, and development. Animal topics covered will include behavior, anatomy, nutrition, circulation, defense, regulation, signaling, reproduction, development, nervous system, sensory and motor mechanisms. Prerequisites: BIOL-103 or BIOL-110 and BIOL-112 or consent of the instructor. Offered Fall semester.

**BIOL-213** 4 (3-2)  
**Anatomy & Physiology I**  
 A study of the structure and function of the human body. This is an in-depth course for science and life science majors. It covers cells, tissues, nervous, sensory, circulatory, lymphatic, and respiratory systems. It will include extensive dissection and written laboratory reporting. Prerequisites: R; ACT Science score minimum of 20, but 24 is recommended, or the student must have passed with a "C" or better one year of high school biology or BIOL-104; and must have passed with a "C" or better one year of high school chemistry or CHEM-107.

**BIOL-214** 4 (3-2)  
**Anatomy & Physiology II**  
 A continuation of Anatomy and Physiology I. It will cover the digestive, integumentary, skeletal, muscular, endocrine, and reproductive systems; plus fluids, metabolism, and developmental subjects. Prerequisites: BIOL-213 with a "C" or better.

**BIOL-225** 2 (2-0)  
**Medical Microbiology**  
 An introductory Microbiology course emphasizing the medical applications of microbiology. The subject matter will include microscopic techniques, prokaryotic and eukaryotic structure, control of growth, diversity of microbial life, epidemiology, the immune system, and common microbial diseases. Prerequisites: CHEM-107 or equivalent and at least one semester of college level Biology.

**BIOL-226** 4 (3-3)  
**Microbiology**  
 An introductory course designed to give the student an understanding of the means by which microorganisms' growth can be controlled and regulated, their symbiotic relationships, and host responses to their presence. Prerequisite: Eight credits of Biology or permission of the instructor. Exposure to biochemical principles is recommended. Normally offered Winter semester of even numbered years (2018, 2020, etc.)

**BIOL-255** 3 (3-0)  
**Genetics**  
 This course emphasizes the development of analytical and problem solving skills in molecular, transmission, and population genetics. To meet natural science breadth requirements for A.A. or A.S. degrees, and for many transfer programs, BIOL-255 must be taken concurrently with BIOL-256, Genetics Lab. Prerequisite: BIOL-103, or BIOL-110 & 112, or consent of the instructor. Offered on demand.

**BIOL-256** 1 (0-3)  
**Genetics Lab**  
 This course provides lab experiences associated with BIOL-255. BIOL-256 should be taken concurrently with BIOL-255.

**BIOL-270** 3 (3-0)  
**Ecology**  
 This course emphasizes the study of the interactions between organisms and their environment from an evolutionary perspective. Ecological concepts relating to the individual, population, community, and ecosystem levels of biological organization are emphasized. To meet the natural science breadth requirements for A.A. or A.S. degrees, and for many transfer programs, BIOL-270 must be taken concurrently with BIOL-271, Ecology Lab. Prerequisite: BIOL-103, or BIOL-110 & 112, or consent of the instructor. Offered on demand.

**BIOL-271** 1 (0-3)  
**Ecology Lab**  
 This course provides lab experiences associated with BIOL-270. BIOL-271 should be taken concurrently with BIOL-270.

**BIOL-276** 3 (3-0)  
**Pathophysiology**  
 The purpose of this course is to define and analyze significant pathophysiological processes of common diseases and illnesses utilizing a systematic approach. The etiology, pathogenesis, and clinical manifestations of common disease processes are covered. Prerequisite: BIOL-214.

## BUSN-BUSINESS

**BUSN-160** 3 (3-0)  
**Introduction to Business**  
 This course is intended to offer the student an overview of the business complex, business organization and management, personnel and labor relations, banking and finance, governmental agencies and controls, production, marketing, and the like. Throughout the course, current career opportunities will be explored.

**BUSN-177** 3 (3-0)  
**Mathematics of Business**  
 A course intended primarily for non-transfer business students and for others who need to use mathematics in the solution of practical problems. Some of the areas covered include banking procedures, payroll, financial situations, time value of money, installment buying, cost of home ownership, stocks and bonds, business statistics, frequency distributions, and measures of dispersion. This course does not fulfill the math requirements for the A.S. or A.A. degrees. This course is a supportive course designed to meet occupational program requirements. Prerequisite: MATH-095 or MATH-097 or MATH-098 with a "C" or better or appropriate score on the mathematics placement test.

**BUSN-195** 3 (3-0)  
**Business Communications**  
 This course is designed to help the student develop communications skills appropriate to a variety of business situations including letters, memos, short reports, electronic slide presentations, e-mail, group interaction, and listening skills. Emphasis will be placed on both content and mechanics with a goal of mailability on all written documents. Prerequisite: CIS-101 or permission of instructor. Keyboarding ability is recommended. Prerequisite: E and R

**BUSN-203** 3 (3-0)  
**Management Information Systems**  
 A study of the roles, value, and design of management information systems in various business contexts. Includes information about the IT infrastructure comprising these systems (e.g. databases, networks, hardware and software technology), as well as key applications of these systems (e.g. decision making, e-commerce, information/knowledge management). Students will learn about the systems development process while gaining hands-on experience with management information system components and working in teams to perform selected activities. Prerequisite: CIS-101 or instructor's permission. Offered in the Fall online.

**BUSN-242** 3 (3-0)  
**Principles of Management**  
 An introduction into the social and legal implications of business functions and managerial decision-making problems and solutions. The student, upon completion, should be able to use the knowledge in making better personal and social decisions in business. Prerequisite: BUSN-160.

**BUSN-250** 3 (3-0)  
**Business Law I**  
 A course dealing with common law and the Uniform Commercial Code as it applies to contracts, agencies, employment, commercial paper, personal property, and bailments. The introduction to the course surveys the law and the resolution of disputes. The introduction also includes the social forces and legal rights included in the law.

**BUSN-251** 3 (3-0)  
**Business Law II**  
 A course in business law to be used as an elective in the accounting and general business programs. The material to be covered will include business law as it pertains to agency, employment, partnerships, corporations, and commercial paper. Normally offered on campus in Fall semester and online in Winter semester.

**BUSN-253** 3 (3-0)  
**Marketing**  
 This is an introductory course in marketing. It is designed to look at the major elements used to successfully market products, services, and ideas. The course covers the marketing process from evaluation of the marketing environment through development of a marketing plan. Students will utilize the marketing concepts to analyze situations, develop creative problem solutions, and present workable alternatives. The role of Marketing in the business structure and the use of a marketing philosophy in business are examined.

**BUSN-258** 3 (3-0)  
**Small Business Management**  
 This course is designed to cover the areas of small business and management. The emphasis of the course is on selection, start-up, and operation of a small business. Students develop a comprehensive business plan for opening a new business or purchasing an existing business. Areas of concentration include the decision to choose self-employment, factors necessary for personal success in a small business, evaluating the potential for business success, options for establishing a small business, organization, financing site selection, layout, operations, and control. Normally offered in Winter semester. Prerequisite: BUSN-160.

**BUSN-260** 3 (3-0)  
**International Business**

This course is intended to offer the student an overview and comparison of international business environments. It is designed to provide the student with the basic concepts and theories pertaining to global business. Course content includes, but is not limited to, the social, political, and economic environments of the multinational firm. Prerequisite: BUSN-160. Normally offered on campus in Fall and Online in Fall and Winter.

**BUSN-262** 3 (3-0)  
**Principles of Selling**

This course covers developing sales techniques effective in various types of professional selling situations. Basic principles of selling are emphasized, and the students shall be able to relate these sales techniques to the individual's area of concentration. This course is offered generally in the classroom during the Winter semester and is offered online during the Fall semester.

**BUSN-263** 3 (3-0)  
**Introduction to Modern Advertising**

This is an introductory course in Advertising and Integrated Brand Promotion. The course will cover area relevant to modern advertising, offering a comprehensive overview of advertising and brand promotion from an integrated marketing communications perspective. The course covers the historical, economic, social, legal and ethical aspects of advertising along with the roles of traditional advertising as well as digital and interactive media. Students will use the elements of market research, media planning, and creative strategies to evaluate and create advertisements and comprehensive advertising campaigns. Prerequisites: BUSN160 and BUSN253. Offered in Winter only.

**BUSN-272** 1-4  
**Internship & Cooperative Education**

Students who have acquired the fundamental skill sets of their business education are given an opportunity to put their knowledge, skills, and abilities into practice through this Internship/Co-operative Education course. The student may earn business elective credit by working in a for-profit or non-profit setting. Internship means work for credit only, while co-operative education means work for pay under the guidelines of co-operative education at Bay College. Prerequisite: 24 semester hours of course work in related field, cumulative GPA of 2.0 or higher. Must meet with an advisor prior to registration.

**Internships & Co-ops may require that the student pass a criminal background check.**

**BREW-BREWING**

**BREW-101** 2 (1-2)  
**Brewing Science**

This course is intended for those who are interested in obtaining a well-rounded introduction to the practice of brewing. The curriculum has been designed with direct input and participation by local brewing professionals. The course introduces the science behind brewing, provides deeper understanding of the different craft brew styles, and allows students to practice their skills by making a batch under the guidance of a brewing expert. Successful completers will be prepared to pursue employment in a wide variety of positions in a craft beverage operation.

**CADD-COMPUTER AIDED  
DESIGN**

**CADD-100** 1 (2-0)  
**CAD Competency Definition**

An explanation of the five CAD program competency requirements. The program requirements will be discussed in detail along with acceptable standards. The five CAD program requirements are: 1) creating a professional resume, 2) creating a professional portfolio, 3) passing a standardized test in AutoCAD, 4) passing a test in CAD/Drafting standards and practices, and 5) passing a fundamental keyboarding test. Prerequisite: R and CADD Major. Offered in Fall only.

**CADD-112** 3 (2-3)  
**CAD Computer Technology**

A study of computer technology and graphic methods as they apply to Computer Aided Design. Topics include operating systems, networks, pc technology and trouble shooting, the Internet, Microsoft Office, desktop publishing and computer graphics, scanning technology, video and audio capture, animation, virtual reality, and artificial intelligence. Prerequisite: R. Offered in Fall only.

**CADD-115** 3 (2-3)  
**CAD Foundations**

An in-depth study of the theoretical principles and graphical methods currently employed in industry. Emphasis is placed on learning basic and higher level concepts in addition to acquiring fundamental CAD skills. Drafting topics covered include geometric construction, technical sketching, orthographic projection, axonometric projection/drawing, oblique projection/ drawing, perspective projection/drawing, dimensioning, sections, and primary and secondary auxiliary views. Computer topics include operating systems, AutoCAD system configuration, AutoCAD fundamentals, software and hardware compatibility. Prerequisites: CAD Major, Engineering Major, or permission of instructor, R. Offered in Fall only.

**CADD-120** 3 (2-3)  
**AutoCAD**

An in-depth study of the AutoCAD software with emphasis on learning the application. Topics include: operating system fundamentals, user interface, object creation and modification, editing, layers, properties, paper space and model space concepts, dimensioning and dimensioning variables, blocks, attributes, three dimensional construction, solid modeling and scripts. Prerequisites: CAD Major, Engineering Major, or permission of instructor. Offered in Fall only.

**CADD-122** 3 (2-3)  
**Dimensioning & Tolerancing**

A study of dimensioning and tolerancing as applied to mechanical and architectural documentation. Topics include: dimensioning, detail dimensioning, dimensioning techniques, tolerancing, GDT symbology, datums, and tolerance calculations. Prerequisites: CAD Major or permission of instructor, R. Offered in Fall only.

**CADD-125** 3 (2-3)  
**Drafting/Modeling-Mechanical**

A study of the appropriate application of drafting/modeling conventions and standard practices in the mechanical area. The course stresses attention to detail and critical thinking. The course is grounded in the practical application of descriptive geometry. Prerequisites: CADD-120 or permission of instructor. Offered in Winter only.

**CADD-135** 3 (4-1)  
**Descriptive Geometry**

A topical study of the graphical methods used in solving established descriptive geometry problems. Emphasis is placed on understanding three dimensional spatial relationships in connection with: 1) successive auxiliary views, 2) revolution, 3) sections and developments, and 4) vector analysis. Prerequisites: CADD-115, CADD-120, or permission of instructor. Offered in Winter only.

**CADD-200** 1 (2-0)  
**CAD Competency Assessment**

Assistance with completing the CAD Program competency requirements. The program requirements will be evaluated in detail using the standards identified in CADD- 100, CAD Competency Definition. The five CAD program requirements are: 1) creating a professional resume and cover letter, 2) creating a professional portfolio, 3) passing a standardized certification test in AutoCAD, 4) passing a test in drafting standards and practices, and 5) passing a fundamental keyboarding test. Students will receive an incomplete in this course until these competencies have been met. Prerequisites: CADD-100 and CADD-257, or permission of instructor. Offered in Winter only.

**CADD-215** 3 (2-3)  
**Feature Based Parametric Modeling**

An in-depth study of Feature Based Parametric Modeling software with emphasis on learning an application. Topics include: Principles of Solid Modeling, parametric design, generation of bill of materials, creating symbols, assembly modeling, and automated associated drafting. Prerequisites: CAD Major, Engineering Major or permission of instructor. Offered on demand only.

**CADD-226** 3 (2-3)  
**SolidWorks**

An in-depth study of the SolidWorks software with emphasis on learning the application. Topics include: Principles of Solid Modeling, parametric design, generation of bill of materials, creating symbols, assembly modeling, and automated associated drafting. Prerequisite: CAD Major, Engineering Major, or permission of instructor. Offered in Winter only.

**CADD-240** 3 (2-3)  
**Drafting/Modeling-Architecture**

A concentrated study of traditional architectural design documentation practices. Emphasis is placed on correct graphical representation and understanding basic design constraints typically associated with conventional housing. Prerequisites: CADD-115 and CADD-120, or permission of instructor. Offered in Fall only.

**CADD-255 3 (2-3)****Team Problem Solving**

A study of the systematic processes controlling and guiding product design development, and construction/ manufacture. Topics include: aesthetics, design principles, and design processes. Emphasis is placed on planning, analysis, evaluation and critical thinking. Prerequisites: CADD-122, CADD-125 and CADD-135, or permission of instructor. Offered in Winter only.

**CADD-257 3 (2-3)****Rapid Prototyping**

An in-depth study of Rapid Prototyping and CNC techniques. Three-dimensional models of complex geometry will be created and exported for use in building physical models with a 3D Printer and a 3D Router. Prerequisites: CADD-125 or permission of instructor. Offered in Fall only.

**CADD-272 3 (0-3)****CAD Internship/Co-op**

This course provides an opportunity to receive credit for directly related CAD work experience. Development of employability, communication, and team building skills is an expected outcome. Students must document 120 working hours on the job. The co-op criteria and specific requirements are outlined in the Bay College Co-operative Education and Internship handbook. Contact the instructor for a copy of the handbook. Prerequisites: 6 credits completed in the major field of study, CADD-125, CADD-135, and permission of instructor.

**Internships & Co-ops may require that the student pass a criminal background check.**

**CHEM-CHEMISTRY****CHEM-090 4 (4-0)****Fundamentals of Chemistry**

Developmental in nature, this course is designed to familiarize those students who have a weak background in high school chemistry. This course does not fulfill requirements toward any degree. Prerequisite: MATH-095, MATH-098 or MATH-106 with a "C" grade or better, or an appropriate score on the mathematics placement exam. An appropriate scientific calculator is required. Normally offered Fall semester.

**CHEM-103 4 (3-2)****Essential Chemistry**

A survey of the basic concepts and principles of chemistry designed for non-science majors. An introduction to the basic language of chemistry, the basic systems of inorganic, organic, and biochemistry, and their application to everyday life and the general ecosystem. Topics may include the chemistry of drugs, household products, energy resources, air resources, and material resources. This course is designed for students who are not majoring in chemistry as well as for those fulfilling a lab science requirement in their degree. One semester of high school science expected. Prerequisites: E, M, R. Normally offered each semester.

**CHEM-107 4 (4-2)****Human Chemistry**

An introduction to the concepts of inorganic, organic, and biological chemistry for students in nursing and other Life Science majors. Subjects will include metric units, state of matter, atomic structure, energy transfer, gases, atomic energy, solution concentration, oxidation reduction, acids, bases, and salts. It will briefly cover carbon compounds, biochemical compounds, and metabolic pathways. Application to life situations will be made whenever possible. Prerequisites: M. Normally offered every term.

**CHEM-108 5 (4-3)****Technical Chemistry**

This course is a one-semester general chemistry course. This course emphasizes laboratory techniques and safety, units of measurement, atoms, elements, periodicity, stoichiometry, solutions, acid-base theory, gas laws, thermochemistry, and basic organic chemistry. Not intended for students requiring additional chemistry courses. Prerequisites: One year high school chemistry or CHEM-090 and MATH-105 or MATH-106 with a "C" grade or better or appropriate score on the mathematics placement exam. Permission of instructor required. Normally offered Winter semester.

**CHEM-110 5 (4-3)****General Chemistry I**

The first semester of a two semester general chemistry course designed to meet the needs of science students. The course covers units of measurement, the structure of atoms, nomenclature, stoichiometric relationships and calculations, bonding, and states of matter. Prerequisites: One year of high school chemistry or CHEM-090 with a "C" or better or CHEM-103 with a "C" or better and MATH-105 with a "C" or better or appropriate score on the mathematics placement exam. Normally offered in the Fall semester.

**CHEM-112 5 (4-3)****General Chemistry II**

The second semester of a two semester general chemistry course designed to meet the needs of science students. The course covers properties of solutions, chemical equilibria, basic kinetics and thermodynamics, acid/base theory, and nuclear chemistry. Prerequisite: CHEM-110 with a "C" or better. Normally offered in the Winter semester.

**CHEM-201 4 (3-3)****Organic Chemistry I**

The first semester of a two semester organic chemistry course designed to meet the needs of science students. The course covers a survey of various organic functional groups, stereochemistry, nomenclature and reactions of saturated and unsaturated hydrocarbons, alkyl halides, and aromaticity. Prerequisites: CHEM-112 with a "C" or better. Normally offered in the Fall semester.

**CHEM-202 4 (3-3)****Organic Chemistry II**

The second semester of a two semester organic chemistry course designed to meet the needs of science students. The course covers a survey of spectroscopic techniques, including Nuclear Magnetic Resonance spectroscopy, nomenclature and reactions of various organic functional groups, including alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives. Prerequisite: CHEM-201 with a "C" or better. Normally offered in the Winter semester.

**CHLD-EARLY CHILDHOOD CARE & EDUCATION****CHLD-101 3 (3-0)****Foundations in Early Childhood Care and Education**

This course will introduce the field of early childhood care and education including historical and multicultural perspectives; understanding the principles of learning and development for ages birth through age 8; intentional teaching; building partnerships with families; guiding young children; planning and implementing effective curriculum in support of physical, cognitive and social emotional growth and development; authentic assessment of learning and development through observations and Developmentally Appropriate Practices. This course meets the Council for Professional Recognition CDA Subject Areas 1-4 and 6-8.

**CHLD-103 3 (3-0)****Child Development (Ages 3-8)**

This course examines the growth and development patterns of children ages 3-8 including physical, cognitive, social, emotional, and language development. The influences of health, play, families, the early childhood education experience and other environmental factors impacting development will be addressed. A variety of authentic assessment tools will be utilized to address the Assessment/Observations/ Curriculum Cycle.

**CHLD-110 3 (3-0)****Health, Safety, & Nutrition for Early Childhood**

This course offers the early childhood practitioner introductory information concerning the health, safety and nutritional needs of young children ages birth through 8 years. Exploration and application of State Child Care Licensing Standards and health education will be included. This course will meet the Council for Professional Recognition CDA Subject Areas 1 & 2.

**CHLD-120 3 (3-0)****Child Guidance**

This course focuses on positive classroom management and child guidance strategies based on the interrelationship of developmental age/ stages as well as the role of indirect and direct guidance. Understanding and managing anger/ aggression will be included in support of the ultimate goal of child guidance, and the development of self-control. Prerequisites: CHLD-101 and CHLD-103.

**CHLD-125 3 (3-0)**  
**Infant/Toddler Development and Programming**

This course addresses the physical, cognitive, language, social and emotional development for children ages 0-3 years. Planning safe, stimulating, developmentally appropriate environments for the care of infants and toddlers, and strategies that support and empower families through respectful and reciprocal relationships are included. Appropriate observation, documentation and assessment techniques of infant and toddler growth are studied. Prerequisite: CHLD-101 and CHLD-103.

**CHLD-130 3 (3-0)**  
**Curriculum Development and Assessment I**

This course will focus on research based early childhood curriculum models; the role of teachers in and importance of play in early childhood learning and development; and the child assessment/observation/ curriculum cycle. Developmentally appropriate programming to promote physical, cognitive, and social-emotional development will be selected and implemented in the required 90-hour practicum. A criminal history background check, central registry clearance, physical examination and TB test are required. Prerequisites: CHLD- 101 and CHLD-103.

**CHLD-135 3 (3-0)**  
**Introduction to Children's Literature**

This course offers a survey of prose and poetry suitable for toddlers and preschool age children. Work will include the presentation and selection of materials designed to give experience with children's books that will aid in the stimulation and guidance of reading. It includes student participation involving the reading of selections from children's literature and student understanding that curriculum development is based on developmentally appropriate literature being embedded throughout the day and within play. Pre-Requirement: ENGL-101

**CHLD-200 3 (3-0)**  
**Inclusion in Early Childhood Programs**

This course will include resources and models for early childhood special education in the childcare community. Techniques and strategies for adapting material and environments in support for all children's development will be emphasized. Prerequisite: CHLD-103. Co-requisite: PSYC-201

**CHLD-230 6 (6-0)**  
**Curriculum Development and Assessment II**

This course will focus on the assessment/ observation/curriculum development cycle including the role of teachers in and importance of play in early childhood learning and development; curriculum development and implementation of developmentally appropriate activities to promote physical, cognitive and social-emotional development. An emphasis on math, science and social studies programming will be included. Artifacts demonstrating NAEYC Standards competence will be collected for professional capstone portfolio development. The 90-hour practicum requires a criminal history background check, central registry clearance, physical examination and TB test. Pre-requisite: CHLD-130.

**CHLD-240 3 (3-0)**  
**Administration in Early Childhood Programs**

This course covers administrative and managerial skills needed to administer early childhood programs including the use of observation, documentation and planning to support children's development and learning. Organizing, planning, record keeping and communication with the public and parents are addressed. Emphasis on ethical practices, workforce issues, professional development, goal setting, networking and the importance of positive family relationships as well as a firm foundation in the principles of child development and learning are included. This course meets the requirement for Council for Professional Recognition/ CDA Subject Areas 4, 5, 6, and 8.

**CHLD-272 6 (6-0)**  
**Practicum in Early Childhood Education**

This course will focus on planning, implementing and evaluating integrated, developmentally appropriate curriculum based on authentic assessment/child observations in support of physical, cognitive and social-emotional development and learning. A professional capstone portfolio based on the NAEYC Standards for Teacher Training will be completed and presented. The course includes a 120 hour practicum which requires a criminal history background check, Central Registry Clearance, physical examination and TB test. Pre-requisite: CHLD-230.

**CIS-COMPUTER INFORMATION SYSTEMS**

**CIS-090 1(1-0.5)**  
**Basic Computer Literacy**

This transitional course is designed as a foundation for those with little or no computer experience. Students will develop basic skill sets in computer operations, the Windows operating system, the Internet including Web and email, and word processing. Students will develop basic computer skills for both personal and academic needs, as well as prepare for higher level courses. This course does not fulfill degree requirements.

**CIS-100 1(1-0)**  
**Introduction to Windows**

Students will learn the essential skills required to use a computer with the Windows operating system. The student will learn to interact with the Windows desktop to access software and data. The course emphasizes the importance of file and folder maintenance. The course also includes an introduction to Windows utilities and customizing tools.

**CIS-101 4 (4-0)**  
**Computer Concepts & Applications**

This course will provide students with a fundamental level of computer literacy necessary in today's digital age. Topics will include hardware, software, the Internet, security, networks, and ethics. The course will focus on current technology issues as they apply to a student's professional and personal life. Students will also complete assignments using the most widely used application programs. Students may be required to use the computer lab to complete computer assignments.

**CIS-103 4 (4-0)**  
**Visual Basic**

This course will introduce the student to computer programming. It will focus upon the necessary logic structures required for structured programming. In addition, it will provide the students with an opportunity to apply the logic structures using Visual Basic, a versatile and powerful Windows-based programming language. Students will complete a series of programming assignments in the course. No prior experience with programming is required. Prerequisite: M.

**CIS-115 3 (3-0)**  
**Using Microsoft Windows**

This course provides detailed instruction in the Windows operating system. The class will cover essential topics including using the Windows interface, apps, desktop applications, and the search feature. Students will also learn how to organize files and folders, use utilities to maintain system performance, access network resources, and manage computer security.

**CIS-120 1 (1-0)**  
**Microsoft Word**

This course introduces students to the fundamental features of Microsoft Word. Major topics include formatting text; creating and formatting tables; inserting headers, footers, citations, and graphic elements; and merging documents and envelopes. Keyboarding skill helpful.

**CIS-121 1 (1-0)**  
**Microsoft Excel**

This course introduces students to the fundamental features of Microsoft Excel. Major topics include creating and formatting worksheets and charts; entering formulas and functions; creating and manipulating tables; and developing multisheet workbooks. Keyboarding skill helpful.

**CIS-122 1 (1-0)**  
**Microsoft Access**

This course introduces students to the fundamental features of Microsoft Access. Major topics include creating tables; defining field properties; entering and editing data; developing forms and reports; and creating and running queries. Keyboarding skill helpful.

**CIS-123 1 (1-0)**  
**Microsoft PowerPoint**

This course introduces students to the fundamental features of Microsoft PowerPoint. Major topics include creating and formatting presentations using themes, graphic elements, interactive elements, and animation effects. Keyboarding skill helpful.

**CIS-125 2 (2-0)**  
**Business Technology Tools**

This course will introduce students to software tools used to collect and manage information in the business environment. Topics covered will include integrated information management programs such as Microsoft Outlook and note taking programs such as Microsoft OneNote. Other web-based applications will also be explored. Prerequisite: CIS-101 or permission of instructor.

**CIS-130 3 (3-0)****Spreadsheet Applications**

This course is designed to provide detailed, hands-on instruction in current spreadsheet software. Topics will include creating and formatting a workbook; working with formulas and functions; creating charts, tables, and PivotTables; managing multiple workbooks; and developing macros. Important spreadsheet concepts, including order of precedence in formulas, function syntax, absolute and relative cell references, what-if analysis, and data validation will be covered. Prerequisites: OIS-090 or ability to keyboard at a minimum of 25 wpm.

**CIS-135 2 (2-0)****Introduction To Cybersecurity**

This course will provide an introduction to the basic concepts of cybersecurity. Various cyber threats will be explained along with information on how to select, install, and configure security technologies to protect against these threats. Cybersecurity is a critical issue for anyone who uses the Internet. This course will provide computer users with the knowledge and skills necessary to be safe online.

**CIS-140 3 (3-0)****Database Applications**

This course will develop students' skills in the area of database management. Students will design, develop, and maintain a database using up-to-date database management software. Topics will include creating and editing tables, creating forms and reports, sorting records, generating reports, applying queries, and using filters. Prerequisite: OIS-090 or ability to keyboard at a minimum of 25 wpm.

**CIS-203 3 (3-0)****Visual Basic for Applications**

The purpose of this course is to provide a strong, fundamental understanding of Visual Basic for Applications, a programming language used in Microsoft Office applications as well as in several non-Microsoft software products. VBA allows programmers to customize and automate a large number of application software packages used in many corporate and educational settings. The hands-on focus of this course allows students to become adept at manipulating a great number of objects in application development. Students will also further develop troubleshooting skills using VBA's debugging tools. Prerequisite: CIS-103.

**CIS-210 3 (3-0)****Web Page Design & Structure**

This course will introduce students to web page design and structure using XHTML. The course will emphasize development of well-designed Web pages that combine effective navigation with the balanced use of graphics, text, and color. Students will learn how to create Web pages that let users easily and quickly access information, regardless of browser, connection speed, or computing platform. Prerequisites: CIS-101, CIS-115 or CNSS-150 or permission of instructor.

**CIS-215 3 (3-0)****Web Publishing**

The purpose of this course is to provide a strong, fundamental understanding of Web publishing software. Web publishing software allows developers to design and develop Web sites that include multimedia elements. The course will not only emphasize skill building, but also on concepts that are important in Web site development in the real world: navigation issues, optimization of graphics, layout and design of the Web site, attentiveness to the intended audience, and consideration of the customer's requirements. The hands-on focus of this course allows students to become adept at building professional Web sites. Prerequisites: CIS-210 or permission of instructor. Normally offered in the Winter semester.

**CIS-220 4 (4-0)****Java Programming**

This course enables students to develop applications using the Java programming language. Students will be able to build useful programs using Java constructs while learning the basics of structured and object-oriented programming techniques. They will also be introduced to GUI and Web-based programming in Java. Students will complete a series of programming assignments in the course. Prerequisite: CIS-103 or CSCI-121. Normally offered in the Fall semester

**CIS-235 3 (3-0)****Mobile App Development**

This course will provide the student with a strong programming foundation necessary to build mobile applications for Android devices. This course reinforces key programming concepts, including variables, decision making, lists, and arrays, and the technical skills needed to create fully functional Android apps. Prerequisite: CIS-103, or CSCI-121 or CIS-220. Normally offered in the Winter semester.

**CIS-240 3 (3-0)****Advanced Database Applications**

The purpose of this course is to provide students with a solid background in advanced database topics. Students will learn how to create data access pages, complex reports, macros and modules, and run advanced queries. The hands on, project-based nature of this course will lead students through the advanced features of current relational database software. Prerequisites: CIS-140.

**CIS-271 1****CIS-272 2****CIS-273 3****Computer Information Systems Internship/Co-op**

This course provides an option for students who have completed a significant portion of their CIS degree to obtain valuable on the job experience at a business workplace. Students may be placed at a suitable work site and earn college credit for satisfactory work performance. Placement is contingent upon approval of the placement site and the student's advisor. Evaluation of student performance will be carried out by the student's supervisor at the workplace in conjunction with the CIS program coordinator.

Students are responsible for identifying an appropriate internship site. Students interested in an internship placement should read the Bay College Co-operative Education and Internship Handbook (available on the College web site), and

contact their faculty advisor during the semester prior to the desired placement date. Each internship credit requires 40 hours of work experience. Prerequisites: 24 credit hours completed in the CIS program with a cumulative GPA of 2.75 or higher.

**Internships & Co-ops may require that the student pass a criminal background check.**

**CJUS-CRIMINAL JUSTICE****CJUS-110 4 (4-0)****Introduction to Corrections**

This course is designed to provide a broad overview of the American corrections systems. It presents an explanation of the various goals of corrections to include incapacitation, retribution, deterrence, rehabilitation, and reintegration. Specific coverage will be provided of development of correctional ideologies from early history to the modern era and how those ideologies were reflected in various types of programs. Additional attention will be directed to the legal issues and processes which move an individual in and out of the system and how civil rights decisions have influenced the continuing development of corrections.

**CJUS-112 4 (4-0)****Introduction to Criminal Justice**

A study of the challenges of crime and justice in a democratic society, the development of laws necessary to meet those challenges, and a significant understanding of the roles and protections of the United States Constitution. The student will explore the criminal justice system, the development and modernization of the criminal justice process and the functional aspects of law enforcement, the judiciary, correction, and juvenile justice. The course will analyze the roles, procedures, and the successes and problems associated with the administration of criminal justice in the United States. An emphasis is placed on the inter-component relations; the checks and balances within the system and political and societal influences upon the distribution of justice in America.

**CJUS-114 2 (2-0)****Criminal Justice Report Writing**

This course will present the general features of criminal justice report writing and develop those principles of clear writing, grammar, spelling, and punctuation. There will be a special emphasis on accuracy, completeness, clarity, conciseness, and objectivity. Students will learn the importance of good note taking and observation skills. This course will focus on reports for law enforcement, corrections, and court personnel.

**CJUS-115 4 (4-0)****Introduction to Private Security**

This course will focus on practical, real-world concepts and applications of private security including detailed coverage of industry background and related law: retail, business, employment, investigation, surveillance and security administration. Students will get a clear sense of career opportunities available in the field, as well as the skills needed to secure a job in the industry.

**CJUS-120 3 (3-0)****Legal Issues in Corrections**

This course studies state and federal law related to corrections. Particular emphasis is placed on constitutional issues and remedies for violations of rights. Students will gain insights into a wide range of policy considerations behind corrections laws and administrative procedures. Leading cases and court decisions will be discussed at length and their impact on corrections explored. Prerequisite: CJUS-110.

**CJUS-130 6 (6-0)****Private Security Academy**

This course will focus on practical, hands-on training in the following tactics: weaponry (including firearms and taser), chemical spray and controlled force. Upon completion of this course, students will obtain certification in all of these tactics.

**CJUS-210 4 (4-0)****Client Growth & Development**

The purpose of this course is to give the student an understanding of, and sensitivity to, the motivations and behaviors of correctional clients. The course begins by reviewing general factors believed to be influential in human development and analyzes specific problems of prisoners. The course examines prevention theories as well as intervention and treatment strategies. Prerequisite: CJUS-110.

**CJUS-212 4 (4-0)****Introduction to Law Enforcement**

CJUS-212 is designed to provide familiarization with the specific applications, trends, and policies associated with law enforcement in the United States. The course will review the historical challenges of policing a democratic society, the implications of various approaches utilized in the peacekeeping role, and the theoretical design of future law enforcement efforts. Generally, the course will explore the qualifications, training, and traditions of line activities in law enforcement agencies with an emphasis on the patrol function and the prevention of crime, including traffic, investigatory, juvenile, vice, and other specialized operational units.

**CJUS-213 4 (4-0)****The Criminal Court System**

The course provides an examination of the criminal court system and criminal process with an analysis of the major judicial decision-makers, i.e., prosecution and defense attorneys, judges, and courtroom work groups. Special attention is focused on the empowerment given the judiciary from original through appellate jurisdictional levels. The course is designed to provide students with an understanding of the complexities associated with various judicial functions.

**CJUS-214 4 (4-0)****Introduction to Criminal Investigation**

This course is designed to teach the theory of investigation, collection and preservation of evidence, interviewing skills, deductive reasoning, and presentation of evidence to the judicial system. It will teach the skills and knowledge necessary to conduct thorough preliminary investigation of crimes. Techniques used to investigate common categories of crimes will be discussed. Emphasis in this course will be the preparation and execution of investigative plans as they relate to a team approach. Other skills will include interviewing, crime scene processing, and basic forensic examination of evidence. Prerequisite: CJUS-112.

**CJUS-215 4 (4-0)****Crime Scene Investigation**

This course is designed to teach the specifics of gathering, identifying, preserving and analyzing evidence. The course practices crime scene techniques in gathering evidence for specific offenses, including narcotics and dangerous drugs, criminal sexual conduct and other related topics. Prerequisite: CJUS-112.

**CJUS-220 3 (3-0)****Client Relations in Corrections**

This course will examine the dynamics of human interaction within correctional facilities. Human relations in general will be presented to establish a basis for more specific examination of the unique and complex situation found in corrections. The meaning and impact of culture will be explored as well as the causes and influence of prejudice on clients and corrections staff. Considerable discussion time will focus on values, ethics, and professional responsiveness. Prerequisite: CJUS-110.

**CJUS-222 4 (4-0)****Highway Safety & Traffic Investigation**

This course is designed to teach the student the necessary skills to conduct a thorough traffic crash investigation and properly document findings for courtroom presentation. Proper procedures for measuring, scale diagramming, and photographing will be reviewed in order to record physical evidence and essential facts available only at the crash scene. The fundamentals of mathematics, physics, and engineering as they pertain to crash investigations and the proper mathematical equations to apply to the type of crash being investigated will be incorporated. Students will learn to analyze the information to determine what happened before, during, and after the collision. Prerequisite: CJUS-112.

**CJUS-224 4 (4-0)****Emergency Preparedness / Crisis Management**

This course is intended to teach an overview of the characteristics, functions, and resources of an integrated system and how various emergency management services work together in an integration of resources and capabilities. Emphasis will be placed on how this system is applied to all hazards for all government levels, across the four phases, and all functions of emergency management. This is designed as an introductory course to the concepts and problems of crisis and emergency management. The course will differentiate between crises, emergencies and disasters. Students will participate in the development of crisis, contingency, and incident management plans. The National Response Plan, the National Incident Management System, organizing for response, managing the response organization, managing in a turbulent environment, crisis decision-making, and communication will be reviewed. Prerequisite: CJUS-112.

**CJUS-230 3 (3-0)****Corrections Institutions and Facilities**

This course provides the student with a concentrated overview of correctional institutions and facilities. It is designed primarily for students intending to pursue a career in the criminal justice system or for those already employed within the system. It has relevance to other students pursuing a social science orientation. The course explores federal, state, county, and local facilities including maximum, close, medium, and minimum custody facilities. It addresses community facilities, co-educational facilities, and the safety and security requirements and considerations related to each. Constitutional and managerial issues are stressed. The course includes historical developments and philosophy, sociological concepts, definitions and concepts, and their application. Prerequisite: CJUS-110.

**CJUS-240 4 (4-0)****Approaches to Ethics in Criminal Justice**

During the first eight weeks, the student will be familiarized with the traditional perspectives of ethics which form the basis of our present legal and political system. In the second eight weeks, under the guidance of a second subject matter specialist, application of these ethical principles will be discussed as they relate to criminal justice. Students will be expected to develop and express their own position as well as critically evaluate opposing positions. Meets Humanities requirement. Prerequisite: CJUS-112.

**CJUS-272 1-4****Criminal Justice Internship**

Students who have completed CJUS-112 Introduction to Criminal Justice and one additional criminal justice course with at least a 2.3 grade point average (GPA) may apply to take the internship and earn credit hours by working in an approved agency within the student's discipline of interest. Placement of the student is contingent upon approval of the target agency, and the student's advisor. Evaluation of the student's performance will be carried out by the student's supervisors in the participating agency in conjunction with the coordinator of the program. Prerequisite: Student must be a sophomore in good standing with a GPA of 2.0 or greater. This course is offered every term.

**Internships may require that the student pass a criminal background check.**

**CJUS-273 1-4**  
**Criminal Justice Internship**

Students who have completed CJUS-272, Criminal Justice Internship, with at least a 2.3 grade point average (GPA) may apply to take an additional internship and earn credit hours by working in an approved agency different from the agency in CJUS-272, or in a different division of that agency. Placement of the student is contingent upon approval of the target agency, and the student's advisor. Evaluation of the student's performance will be carried out by the student's supervisors in the participating agency in conjunction with the coordinator of the program. Prerequisites: CJUS-272. This course is offered every term.  
**Internships may require that the student pass a criminal background check.**

**CNSS – COMPUTER  
NETWORK SYSTEMS  
& SECURITY**

**CNSS-101 3 (3-0)**  
**Emerging Technologies**

This course will introduce students to trends emerging that will impact the workforce in the next few years. Such trends include Web 2.0 and social networking, cloud computing(SaaS), wireless technologies, voice and video conferencing, and security trends. Students will research topics, submit written work, and will use these technologies in the class.

**CNSS-105 4 (4-0)**  
**Digital Logic Principles**

This course covers the basic principles of electricity and digital electronics involved in the operation of computers and network systems. Topics include waveform generation and transmission, Boolean Arithmetic, and basic circuit operations. All topics are covered with respect to their effect on modern computer and network systems.

**CNSS-110 3 (3-0)**  
**Information Security Principles**

This course provides the foundation for understanding how to protect computer systems, network systems, and information assets (information assurance). Students will be exposed to the latest methods, with a focus on personal information security protection. Understanding key elements like the "Human Firewall" are explored in depth.

**CNSS-115 3 (3-0)**  
**Cyber Ethics**

This course will help students understand the legal, ethical, and societal implications of information technology. Topics will include file sharing, infringement of intellectual property, security risks, Internet crime, identity theft, employee surveillance, privacy, compliance, social networking, and IT responsibility for data and user management. Ethical issues will be discussed entirely from an information technology perspective.

**CNSS-130 4 (4-0)**  
**Introduction to Networks**

Employment in information technology, whether in a software or hardware field, requires in-depth knowledge of computers and networks and the vast amount of terminology relating to this area. This course is designed to prepare students very well for both employment and CompTIA network+ certification.

**CNSS-150 4 (3-3)**  
**A plus Computer Maintenance**

This course is an introduction to Personal Computer hardware and software. Using a theoretical and hands-on approach, students will learn the skills needed to install, configure, and service hardware, operating systems, and applications. In addition, students will learn to configure stand alone or networked computers for reliability and security. This course maps to CompTIA A+ objectives.

**CNSS-220 4 (3-1)**  
**Network Design**

This course provides hands-on understanding of how to design network topologies, and install and manage network devices (switch, router, AP) and identify network problems, and troubleshoot. Students will also learn Cisco Command Line interface and terminology. Prerequisite: CNSS-130.

**CNSS-225 4 (3-1)**  
**Wireless Systems**

Wireless communications infrastructure and how these systems are applied in the workplace will be introduced. Access technologies, signaling, switching and routing techniques in modern wireless communications, transmitters and receivers, cellular wireless systems for mobile communications, cellular LANs for data communications, and satellite communications systems will also be studied. Prerequisites: CNSS 105 and CNSS 220.

**CNSS-230 4 (3-1)**  
**Introduction to Unix Using Linux**

This course is intended to teach the fundamentals of the Unix operating system to students with little or no prior experience in Unix. It will cover open source topics and tools needed to work effectively in a Unix system environment. Familiarity with computers and with the Windows operating system is required to be successful. This course also covers open source software and Linux distributions. Prerequisites: CNSS-150.

**CNSS-231 4 (3-1)**  
**Advanced Linux System Administration**

In depth look at Linux, focusing on proper installation, user administration, and system monitoring. This course will be presented (in seat or hybrid online) in a "hands-on approach." Students will either install Linux on their own or lab system or use VMWare operating system images to perform work. Labs include user/group management, logging, NFS, SAMBA, RAID, DHCP, IPTABLES, and implementing Security. Prerequisite: CNSS-230.

**CNSS-245 4 (3-1)**  
**SQL Server**

Students will gain an appreciation for using and administering database servers. Students will load and configure a SQL server, populate it with data, execute T-SQL queries in order to understand how we store, organize, and call data on a network. Particular attention is paid to securing both the DB, backup and fault tolerance, and maintaining a server. Prerequisite: CNSS-230.

**CNSS-250 4 (3-1)**  
**Windows Networking I**

Course introduces students to Network Administration using the latest Microsoft Network Operating System. Students will load server, configure Active Directory, and use server to perform labs. Course maps directly to Microsoft Certified Technology Specialist (MCTS) and prepares the student for certification. Emphasis on administration of users, group policies, Active Directory design and concepts, and security concepts. Accepted by most universities as CSCI transfer. Prerequisites: CNSS-130 and CNSS-150.

**CNSS-251 4 (3-1)**  
**Windows Networking II**

Course focuses on advanced Windows network administration. Course maps directly to Microsoft Certified Systems Administrator and Microsoft Certified Systems Engineer certifications. Emphasis on role of administration of network devices, fault tolerance, Active Directory and DNS troubleshooting, Group Policies, Web Servers, Virtual Private Networking, Interoperability with other NOS', and IP routed networking. Students load and administer Windows servers, workstations, hubs, routers, switches, UPS, and security software. Prerequisite: CNSS-250.

**CNSS-260 4 (3-1)**  
**Network Security**

This course covers the skills needed to protect computer systems, network systems, and information assets (information assurance). Students will apply the latest methods, with a focus on information system security protection. Understanding key elements like the "Human Firewall" are explored in depth. Prerequisite: CNSS-220.

**CNSS-262 4 (3-1)**  
**Web Server Administration**

This is an advanced course in Web Server Administration. Students will load, configure and secure Windows and Linux platforms and use Virtual Machines and applications extensively. Also, they will load, configure, secure and manage Apache and Windows Internet Information Server web servers. Students will also learn various coding and data integration techniques. Each student will have use of a server platform for the entire semester. Prerequisites: CNSS-230 or CNSS-250.

**CNSS-272** 1-8  
**CNSS-273** 1-8  
**CNSS-274** 1-8

### **CNSS Co-op Internship**

Directly related Information Technology work experience designed to provide students with "on the job" experience at business workplace. Outcomes of this experience will include employability skills, interpersonal communication skills, and information technology skills. Students should contact their faculty advisor at least one semester prior to the desired placement date. The advisor will assist in arranging placement in a preapproved training worksite that is compatible with the student's career objectives, geographic preference, and qualifications. Prerequisites: Student has taken 24 credits in the CNSS program. **Students must pass a criminal background check.**

**CNSS-284** 4 (3-1)  
**CNSS Special Topics**

Special topics in Computer Systems address subjects not typically addressed in depth in survey classes. These topics might include software as a service, computer forensics, information assurance, shell scripting, cloud based applications or operating systems, or specific digital communications or automated systems. CNSS-284 is offered as per need/interest and upon approval of a CNSS Department Instructor.

## **COMM-COMMUNICATIONS**

**COMM-103** 3 (3-0)  
**Interpersonal Communication**

Principles and practices of effective communication through readings, lectures, discussions, and demonstrations. Special focus is on how personal, social, and professional relationships are established, defined, and maintained through verbal and nonverbal interaction. Contemporary concerns of gender, ethics, and global/cultural awareness are addressed.

**COMM-103H** 3 (3-0)  
**Interpersonal Communication - Honors**

Principles and practices of effective communication through readings, lectures, discussions, and demonstrations. Special focus on how personal, social, and professional relationships are established, defined, and maintained through verbal and nonverbal interaction. Contemporary concerns of gender, ethics, and global/cultural awareness are addressed. This is an honors course which requires additional work and academic rigor. Prerequisite: Acceptance into the Honors Program.

**COMM-104** 3 (3-0)  
**Public Speaking**

Students will receive training in speech making with emphasis on preparation, delivery, and evaluation. Also studied are famous speeches, group communications, and panel discussions.

**COMM-120** 3(3-0)  
**Small Group Process**

Participation, decision-making, and problem-solving in small groups. Students participate in groups and evaluate group functioning from the perspective of small group communication concepts through the study of theory, application, and practical experience. Prerequisites: E, R.

**COMM-201** 3 (3-0)  
**Mass Communication & Popular Culture**

This course examines the impact of mediated communication on our culture. Emphasis will be placed on description, analysis, interpretation, and evaluation of mass media forms and their integration in modern society. Meets Humanities requirement. Prerequisites: E, R.

**COMM-225** 3 (2-2)  
**Introduction to Film: History and Interpretation**

In this course, students will study the historical development of film from its inception as a "side show amusement" to what has become, arguably, the dominant art form in modern culture. We will look at film from technical, historical, and cultural perspectives, studying film as both an artistic medium and a means of cultural and artistic expression. We will also discuss the effects of film upon our visual modern culture. Frequent written and oral response is required. Meets the Humanities requirement. Prerequisites: E, R.

## **CSCI-COMPUTER SCIENCE**

**CSCI-110** 3 (3-0)  
**Introduction to Programming**

This course is designed as an introduction to the field of computer science. Topics include top down design, coding, debugging, and development of computer programs and accompanying documentation to solve problems. No prior programming experience is assumed.

**CSCI-121** 3 (3-0)  
**C++ Programming I**

This course is designed as an introduction to the field of computer science. Topics include top down design, coding, debugging, and development of computer programs and accompanying documentation to solve problems. No prior programming experience is assumed. Prerequisite: M.

**CSCI-122** 4 (4-0)  
**C++ Programming II**

The course focuses on advanced programming techniques that are used to solve large problems. Topics include programming style, specifications, object-oriented design and program validation. Additional topics in C++ are covered. Each student, in addition to regular programming assignments, will be required to complete a programming project. Prerequisite: CSCI-121 or CIS-103

## **ECON-ECONOMICS**

**ECON-120** 3 (3-0)  
**Personal Finance**

This course studies the application of economic concepts as they impact consumer decision-making and prudent economic management of the individual's finances. This course includes application and practical examples of choices regarding earning power, protection of income, spending patterns, consumer saving, investing, and budgeting. Also emphasized are the use of credit, insurance, housing options and expenses, career choice, retirement, and estate planning. Meets Social & Behavioral Science requirement. Prerequisite: R.

**ECON-131** 3 (3-0)  
**Macroeconomics**

This course is an introduction into the concepts and applications of basic economic theory. The theories of supply and demand are explored and applied to national and international economic situations. Interactions of consumers, businesses, and government are examined relative to the impact of their actions on the national economy. Activities undertaken to try to control economic activity are examined as to their use and effectiveness. Meets Social & Behavioral Science requirement. Prerequisite: R.

**ECON-132** 3 (3-0)  
**Microeconomics**

This course is an introductory course in the application of economic concepts and theories in the business environment. The course examines different market structures and the actions of the businesses operating in each market structure. The theories examined are applied to several current topics to evaluate the practical use of the concepts. Significant emphasis is placed on the evaluation of costs as they relate to business decision making. Meets Social & Behavioral Science requirement. Prerequisite: R.

## **EDUC-EDUCATION**

**EDUC-103** 2 (2-0)  
**Professional Career Development**

This course involves a study of human relations as it applies to the worker, supervisors, and the employer. Motivation, feelings and emotions, attitudes, and learning are considered with particular emphasis on their application to on-the-job problems. Resume preparation and job interviewing will be studied.

**EDUC-202** 3 (3-0)  
**Educational Psychology**

This course is an introduction to the application of psychological principles and research to teaching and learning. It will expose the student to the processes of teaching and learning from the constructivism, social cognitive, cognitive, and behavioral perspectives. The study of teaching and learning is an integral part of the preparation of those who will become teachers. Understanding the development of the student, diversity, learning, motivation, classroom management, and instruction will make a teacher more effective and the student a better learner. In addition, this course has a required 35 hour field experience in a local school district. Prerequisites: R and PSYC-201 or permission of instructor.

**EDUC-210 2 (2-0)****Exploring Teaching**

This course will introduce the student to the profession of teaching. It will allow students to explore and make informed decisions regarding a career in education. Students will be exposed to the process and choices necessary to become teachers, the challenges and opportunities of teaching, educational thought and history, and the organization, control, supervision, financing, and other aspects of American education. This course is conducted in a seminar format with discussion and student presentations as the primary instructional method.

**ELEC-ELECTRONICS****ELEC-130 4 (3-1)****Circuit Fundamentals I**

This course is designed as an introduction to electrical and electronic concepts. Course topics included are: DC and AC circuit concepts: voltage, charge, current, energy, and power; fundamental circuit laws; characteristics of resistance, capacitance and inductance; basic magnetic concepts and circuits; basic transformer principles. Electrical safety and test equipment usage are taught and practiced.

**ELEC-135 4 (3-1)****Circuit Fundamentals II**

This course is designed as a further investigation of electrical and electronic concepts. Course topics include: AC circuit concepts; resistance, reactance, and impedance; DC and AC circuit analysis theorems: Thevenin, superposition; series and parallel RLC circuits and resonance. Basic safety and test equipment usage are taught and practiced. Prerequisite: ELEC-130.

**ELEC-145 4 (2-2)****Basic Process Control**

An introductory course in the operation, calibration, and application of electrical, pneumatic, and hydraulic process systems. Process variable systems include: temperature, pressure, level, flow, analytical and microprocessing systems.

**ELEC-160 4 (3-1)****Electronics I**

The major emphasis of the course is a study of the characteristics of passive and active electronic components and devices. AM transmission and reception are also presented. Prerequisite: ELEC-135.

**ELEC-170 4 (3-1)****Digital I Fundamentals**

Using binary mathematics and basic Boolean algebra, students gain experience through the construction and testing of digital circuits. This lecture/laboratory course also includes the various logic families used in digital computers and control circuits.

**ELEC-180 4 (2-2)****Electrical Machinery & Controls**

A study of the characteristics and operating principles of Direct and Alternating Current Machinery and Equipment. Also covered are control circuits, maintenance, and trouble analysis. Prerequisite: ELEC-130.

**ELEC-220 4 (3-3)****Digital II Circuits**

A continuation of ET-170. This course covers digital and integrated circuits above the basic logic gate level. Emphasis is placed on a practical approach to digital project design. Specific topics include: counter circuits, shift registers, multivibrators, the 555 timer, A/D and D/A conversions, memory concepts, and microprocessor fundamentals. Prerequisite: ELEC-170.

**ELEC-240 4 (2-2)****Real Time Robotics Systems**

This course introduces the theories involved in operating a robotic system. This includes safety, types of robots, mechanical and electrical components, and hardware and software controls. The student will learn proficient robotic operation using simulation software as well as gain hands-on experience with a FANUC robot in step-by-step and production modes.

**ELEC-245 4 (2-2)****Robotic Vision Systems**

This course introduces the basic tasks and procedures for integrating a vision system with robot operations. Students will learn to setup, teach, test and modify vision applications on an industrial robot controller.

**ELEC-272 1-8****ELEC-273 1-8****ELEC-274 1-8****ELEC-276 1-8****ELEC-277 1-8****Mechatronics Co-op Internship**

This cooperative work experience is designed to provide the student with on-the job learning opportunities within the field of mechatronics.

**ELEC-285 4 (2-2)****Fluid Power**

A study of the principles and applications relating to Hydraulics and Pneumatics used in industrial equipment applications. The course will cover symbology used in fluid power, flow, and pressure relationships, and hydraulic circuitry. This course is designated as a basic introductory course for both electrical and non-electrical majors.

**ELEC-290 4 (2-2)****Introduction to Programmable Logic Controllers**

An introduction to industrial computer applications for hardware control of manufacturing equipment. Students will learn the concepts and principles of Programmable Logic Controllers, including timed events, counting control, sequencing control, and input/output control.

**ELEC-295 4 (1-3)****Mechatronics**

A further study of fluid power principles, covering air and gas pressure principles. Electrical controls of pneumatic equipment in industry will also be covered. This lecture/laboratory course covers sequencing controls, pressure controls, monitoring controls, and computer applications. Prerequisites: ELEC-285, and ELEC 290

**EMT-EMERGENCY  
MEDICAL TECHNICIAN****EMT-110 4 (4-0)****Basic EMT I**

This is the first in a sequence of seven courses taken to prepare the student as a Basic EMT. Emphasis is placed on didactic content delivery covering the role of the EMT, ethical considerations for the EMT, medical terminology, patient assessment, airway management, recognition and management of medical emergencies including: respiratory, cardiac, neurological, and other medical conditions. Additionally, proper use of equipment utilized in the delivery of basic emergency medical care will be covered. Prerequisite (s): Acceptance into the EMT-Basic Certificate Program, BIOL 104 (may be taken concurrently), ENGL 101 (may be taken concurrently). Co-requisites: EMT 120.

**EMT-120 2 (0-4)****Basic EMT II**

This is the second in a sequence of seven courses to prepare the student as a Basic EMT. Emphasis is placed on practical skills used in the delivery of basic emergency care which includes: treating and assessing medical conditions, taking vital signs, use of medical equipment, patient assessment, oxygen delivery equipment, CPR, basic emergency care of medical conditions, and airway management. Prerequisite(s): Acceptance into the EMT Certificate Program, BIOL 104 (may be taken concurrently), ENGL 101 (may be taken concurrently). Corequisite(s): EMT 110.

**EMT-130 1 (0-2)****Ambulance Driving**

This course provides the EMT or Paramedic with practical knowledge and experience to safely operate an ambulance. Course topics include safety strategies, operational laws, defensive driving techniques, and specialized driving maneuvers. Prerequisite(s): Acceptance into the EMT Certificate Program or Acceptance into the Paramedic Associate in Applied Science Program. Student must hold an unrestricted State of Michigan Driver's License. Student is required to provide a current copy of their Michigan Department of Motor Vehicle records once awarded a seat in the program to verify student's Michigan State Driver's license is current and in good standing.

**EMT-140 2 (1-2)****Field Rescue**

This is the fourth in a sequence of seven courses to prepare the student as a Basic EMT. Emphasis is placed on knowledge and skills in vehicle extrication, rescue techniques, extrication involving farm and industrial equipment, and other specialized rescue techniques. Emphasis is placed on patient and rescuer safety. Prerequisites: Acceptance into the EMT Basic Certificate Program, EMT 110 (with a "C" or better grade), EMT 120 (with a "C" or better grade). Co-requisites: EMT 150, EMT 160, EMT 170.

**EMT-150 4 (4-0)****Basic EMT III**

This is the fifth in a sequence of seven courses to prepare the student as a Basic EMT. Emphasis is placed on didactic content delivery covering the recognition and management of environmental and trauma emergencies including: soft tissue, head, chest and abdominal injuries, as well as, verbal, written, and radio communications, appropriate triage of patients having medical and trauma emergencies, and recognition and management of emergency childbirth in addition to a variety of pediatric emergencies. Prerequisites: EMT 110 (with a "C" or better grade), EMT 120 (with a "C" or better grade). Co-requisites: EMT 130, EMT 140, EMT 160, EMT 170.

**EMT-160 2 (0-4)****Basic EMT IV**

This is the sixth course in a sequence of seven to prepare the student as a Basic EMT. Emphasis is placed on the overall delivery of basic emergency care including: patient assessment and use of medical equipment through simulated medical and trauma emergencies. Prerequisite(s): EMT 110, EMT 120, PSYC 201 (students must receive a "C" or better as the final grade for all prerequisites). Co-requisite(s): EMT 130, EMT 140, EMT 150, EMT 170, COMM 103.

**EMT-170 2 (0-6)****Basic EMT Clinic**

This is the final course in a sequence of seven to prepare the student as a basic EMT. Course requirements include: following required OSHA standards, hospital clinicals, ambulance clinicals, and a community service component. Classroom time enhances assessment, history taking skills, and report writing. Prerequisite(s): EMT 110, EMT 120 (students must receive a grade of "C" or better as the final grade for all prerequisite courses). Co-requisite(s): EMT 130, EMT 140, EMT 150, EMT 160.

**ENGL-ENGLISH****ENGL-070 3 (3-0)****Basic Reading Skills**

In this course, students will increase their vocabulary by learning new words and concentrating on context clues. This course also focuses on improving comprehension skills by identifying topics, main ideas, supporting details, and the patterns of organization often used by authors. Students also practice making inferences. Those who successfully complete this course will further develop their reading by enrolling in ENGL-077. This course does not fulfill degree requirements and does not transfer. A grade of C or better is required to successfully complete this course.

**ENGL-070W 2 (2-0)****Basic Reading Skills Workshop**

This workshop is designed to help students increase their vocabulary, comprehension, and inference making in order to succeed in ENGL-077 College Reading Skills. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-077 College Reading Skills. This course is not designed to count toward any degree and is not transferable. A grade of C or better is required to successfully complete this course. Prerequisite: Placement. Co-requisite: Students enrolled in the workshop must be concurrently enrolled in a designated section of ENGL-077 College Reading Skills.

**ENGL-077 4 (4-0)****College Reading Skills**

In addition to improving word recognition, comprehension, and critical thinking skills, students will learn to use active reading strategies to develop as proficient and confident readers. Students are exposed to a variety of text, including novels. ENGL-077 prepares students for the reading required of them at the college level. This course is not designed to count toward any degree and is not transferable. A grade of "C" or better is required to successfully complete this course. Prerequisites: ENGL-070 with a "C" or better or placement.

**ENGL-095 4 (4-0)****Basic Writing Skills**

This course is designed to help students develop the sentence and paragraph level skills necessary to succeed in ENGL-097 College Writing Skills. Students will work on sentence construction, punctuation, vocabulary, and other mechanics of writing. The course will focus on improving writing skills through practice in writing sentences, paragraphs, and short responses to assigned readings. The computing center will be utilized throughout the course. Students taking this course will be expected to continue developing their writing skills by enrolling in ENGL-097. This course does not fulfill degree requirements and does not transfer.

**ENGL-095W 2 (2-0)****Basic Writing Skills Workshop**

This workshop is designed to help students develop the sentence and paragraph level skills necessary to succeed in ENGL-097 College Writing Skills. Students will work on sentence, paragraph, and essay construction; punctuation; and other mechanics of writing. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-097. The computer lab will be utilized as part of the workshop. This course does not fulfill degree requirements and does not transfer. Prerequisite: Placement. Co-requisite: Students enrolled in the workshop must be concurrently enrolled in a designated section of ENGL-097 College Writing Skills.

**ENGL-097 4 (4-0)****College Writing Skills**

This course is designed to help students develop the writing skills necessary to succeed in ENGL-101 Rhetoric and Composition. Students will learn to write unified paragraphs and essays that are supported by concrete details and organized logically. Practice in sentence construction, punctuation, grammar, and vocabulary is also emphasized. Students will read and respond to short essays. The computing center will be utilized throughout the course. Prerequisite: ENGL-095 with a "C" or better or appropriate score on ACT or placement test. This course does not fulfill degree requirements and does not transfer.

**ENGL-097W 2 (2-0)****College Writing Skills Workshop**

This workshop is designed to help students develop the paragraph and essay skills necessary to succeed in ENGL-101 Rhetoric and Composition. Students will work on paragraph and essay construction, grammar, and punctuation. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-101. The computer lab will be utilized as part of the workshop. This course does not fulfill degree requirements and does not transfer. Prerequisite: R and an appropriate score on a writing placement test. Completion of this course with a grade of 'C' or better satisfies the E prerequisite.

**ENGL-098 4 (4-0)****Integrated College Reading & Writing Skills**

This course is designed to help students develop the reading and writing skills necessary to succeed in ENGL 101 Rhetoric and Composition. Students will learn strategies to improve their reading comprehension, word recognition, critical thinking, and active reading skills to become more proficient readers. Students will also learn to write unified paragraphs and essays that are supported by concrete details and organized logically. Practice in sentence construction, punctuation, grammar, and vocabulary is also emphasized. The computing center will be utilized throughout the course. Prerequisites: Appropriate scores on writing and reading placement tests. Completion of this course with a grade of "C" or better satisfies both the E and the R prerequisites.

**ENGL-101 3 (3-0)****Rhetoric & Composition**

This course is designed to help students develop their writing, reading, and thinking skills. Major emphasis is on writing and the writing process. Students will be assigned a variety of both formal and informal writings in expository, narrative, and persuasive modes. In addition, students will be expected to respond in writing to a variety of readings. Although instruction in grammar and mechanics is provided, students are expected to enter the course with a firm foundation in basic writing skills. Student papers will often be used to illustrate writing techniques. The writing lab will provide students with experience in using computers as a writing tool. Prerequisite: E, R.

**ENGL-101H 3 (3-0)****Rhetoric & Composition – Honors**

This course is designed to help students develop their writing, reading, and thinking skills. Major emphasis is on writing and the writing process. Students will be assigned a variety of both formal and informal writings in expository, narrative, and persuasive modes. In addition, students will be expected to respond in writing to a variety of readings. Although instruction in grammar and mechanics is provided, students are expected to enter the course with a firm foundation in basic writing skills. Student papers will often be used to illustrate writing techniques. The writing lab will provide students with experience in using computers as a writing tool. This is an Honors course which requires additional work and academic rigor. The Honors section of ENGL-101 adds depth in reading, rhetorical analysis, and writing. Prerequisite: E, R, and acceptance into the Honors program.

**ENGL-102 3 (3-0)**  
**Research Writing**

Research Writing provides instruction and practice in writing interesting, informative, and evaluative college research papers. Students will conduct library research, acquaint themselves thoroughly with a narrow topic of their choice, devise appropriate thesis statements, and develop their papers with material from a variety of authoritative sources using proper documentation. Prerequisite: ENGL-101 with a "C" or better.

**ENGL-105 2 (2-0)**  
**Strategic Reading & Critical Thinking**

In addition to strategic reading and critical thinking, this course teaches flexibility and fluency. Students demonstrate mastery of these concepts by applying them directly to their college textbooks, along with a wide variety of reading material. Students also learn to utilize the connection between reading and writing by completing a series of essays to demonstrate skills and concepts taught. Prerequisite: ENGL-075 with a "C" or better or R.

**ENGL-112 3 (3-0)**  
**Sign Language I**

This course is designed to provide the student with the basic knowledge and background necessary for communicating successfully with deaf people. This course prepares the student to understand and communicate most effectively with deaf family members, friends, co-workers, customers, or other deaf people. American Sign Language structure is emphasized. This course does not transfer as a foreign language.

**ENGL-113 3 (3-0)**  
**Sign Language II**

This course is designed to add more emphasis on the development of receptive and expressive skills involving structured communication situations that require the use of American Sign Language. The student will be prepared to understand and communicate effectively with deaf people. This course does not transfer as a foreign language. Prerequisite: ENGL-112.

**ENGL-114 3 (3-0)**  
**Sign Language III**

This course further develops skills learned in Sign Language I and Sign Language II. This course does not transfer as a foreign language. Prerequisite: ENGL-113.

**ENGL-145 3 (3-0)**  
**Technical and Report Writing**

This course focuses on awareness of audience and language in the fields of technology, science and industry. This course concentrates on social and ethical responsibility while students create a variety of technical documents. In addition, students participate in activities requiring collaboration, critical thinking, and persuasion. Students will incorporate research using APA style of documentation. Prerequisite: ENGL-101 with a "C" or better.

**ENGL-150 3 (3-0)**  
**Introduction to Literature**

This course is an introductory survey of literature for non-majors. Readings will cover short stories, poetry, drama, and the novel. Students will receive a greater enjoyment of literature by learning how to discover the deeper meaning of the text through critical reading and literary analysis. Meets the Humanities requirement. Prerequisites: E, R.

**ENGL-200 3 (3-0)**  
**American Literature**

This course is a survey of the outstanding authors and poets in the tradition of American literature. Special attention will be given to the social and intellectual backgrounds which were instrumental in shaping both the content and style employed by American writers from Franklin to the present. Frequent written response to the literature is expected. Meets the Humanities requirement. Prerequisite: E, R. Normally offered Fall and Winter semester.

**ENGL-200H 3 (3-0)**  
**American Literature-Honors**

This course is a survey of the outstanding authors and poets in the tradition of American literature. Special attention will be given to the social and intellectual backgrounds which were instrumental in shaping both the content and style employed by American writers from Franklin to the present. Frequent written response to the literature is expected. This is an Honors course which requires additional work and academic rigor. Meets the Humanities requirement. Prerequisite: Acceptance into the Honors Program, E, R. Normally offered Fall and Winter semester.

**ENGL-203 3 (3-0)**  
**Shakespeare**

This course is an introductory study of the dramatic principles and thorough analysis of a selection of Shakespeare's comedies, tragedies, histories, and poems. Meets the Humanities requirement. Prerequisites: E, R. Offered on demand.

**ENGL-205 3 (3-0)**  
**World Literature**

This course is an introductory study of international literature. Literary themes such as colonialism and post-colonialism, comparative literature, and the development of literatures in non-Western cultures will be examined. Frequent written response to the literature is expected. Meets the Humanities requirement. Prerequisites: E and R. Normally offered Fall and Winter semesters.

**ENGL-208 3 (3-0)**  
**Writing Poetry & Short Fiction**

This course is an examination of the creative process in writing poetry and fiction. Students will study the works of various poets and fiction writers. Student writing will be directed toward expression in those forms and toward written response to literary models. Classroom activities will include discussion of student work. Occasional conferences with the instructor are required. Meets the Humanities requirement. Prerequisite: ENGL-101 with a "C" or better. Normally offered in the Winter semester.

**ENGL-209 3 (3-0)**  
**Writing Creative Nonfiction**

This course provides an introduction and immersion into the writing genre of creative nonfiction. Students will construct a writing portfolio of short works in creative nonfiction. Classroom activities will include active discussion of the various models and approaches used in creative nonfiction, analysis of the major writers in creative nonfiction, and the revision of student nonfiction writing. Meets the Humanities requirement. Prerequisite: ENGL-101 with a "C" or better.

**ENGL-210 3 (3-0)**  
**British Literature**

This course is a survey of important British poetry, prose, and drama from the Anglo-Saxon to the Modern periods. Frequent written response to the literature is expected. Meets the Humanities requirement. Prerequisite: E, R.

**ENGL-211 3 (3-0)**  
**Women's Literature**

This course studies the development of women's consciousness as women and how the Women's movement sought to discover those forces that affect both women's lives and women's literature. It also looks at how the change women perceive in their roles affect men and our society. Meets the Humanities requirement. Prerequisite: E, R.

**ENGL-220 4 (4-0)**  
**Introduction to Journalism**

This course is an overview of the history and problems of American Journalism, including discussion of responsibility of the news media under the First Amendment. Practice in modern methods of news gathering, writing, and disseminating for both the print and electronic media. An introduction to the world of communications, including newspapers, magazines, broadcast, television, public relations, and other information services. Useful for learning how to process news as well as for developing a critical approach to news reception.

**ENGL-280 3 (3-0)**  
**ENGL-281 3 (3-0)**

**Special Topics in Literature**

This topics course will cover a range of gender, genre, or period studies through fiction, poetry, drama, film, and occasional nonfiction. Such topics might include Science Fiction, Children's Literature, Poetry, Literature & Film of World War II, etc. See registration schedule for specific offerings. Students may also petition Division for specific topics. Meets the Humanities requirement. Prerequisite: E, R.

**FRST-FORESTRY**

**FRST-100 3(3-0)**  
**Wildland & Rural Fire Control**

This course will acquaint the student with wildland & rural fire control problems and methods. Wildland fire behavior and basic firefighter training are covered. Students who successfully complete this course will meet the necessary criteria needed to qualify to suppress wildfires, WHILE UNDER CLOSE SUPERVISION, in the USFS wildland firefighting system. The class includes a general discussion of the history, development, and constant review of how and why wildland fire prevention and control is necessary. There is an assumption that fighting wildland fires is good, while at the same time the natural phenomena of

cleansing and replenishing the wild by fire needs review and consideration.  
 FRST-100 includes National Wildfire Coordinating Group (NWCG) courses S-130 Firefighter Training, S-190 Introduction to Wildland Fire Behavior, I-100 Introduction to Incident Command System, & L-180 Human Factors in the Wildland Fire Service.  
 Students who complete the Wildland and Rural Fire Control course, along with satisfactory completion of the required physical fitness test (Pack Test) could earn their Red Card certification. This will allow students to apply for firefighting jobs with all state and federal agencies.

## FREN-FRENCH

### FREN-111 3 (3-0) French I

This course is an introductory course that is based upon "The Natural Approach", developing comprehension skills, followed by expressive skills used to convey basic personal information (e.g., home, childhood, hobbies). Additionally, common topics of daily life, travel, cuisine, urban life, and technology are discussed. This course will allow students ample opportunities to improve their French proficiency through conversation, reading, writing, and studies of Francophone cultures. Meets the Humanities requirement.

### FREN-112 3 (3-0) French II

This course is a continuation of FREN-111 and will entail providing a solid foundation of French fluency. This second half of first year French will involve more in depth study of education, travel, and technology, as well as exploration of popular culture (including cinema), environmental issues, business, and health. Meets the Humanities requirement. Prerequisite: FREN-111 or permission of instructor.

## FYE-FIRST YEAR EXPERIENCE

### FYE-101 3 (3-0) College Success Strategies

This course is designed to help students with their transition to college. Students will learn skills and strategies necessary for success in college but also in the workplace and life. Emphasis is placed on learning goal-setting, self-motivation, time management, emotional intelligence, self-awareness, collaboration, and personal responsibility. In addition, students will learn basic study skills and test taking skills. Students will also learn about the resources available to them at Bay College to support their success.

### FYE-102 2 (2-0) Introduction to College

This course is designed to assist students' transition into college. Students will learn strategies that will help them be successful in college and the work place. Strategies taught include: taking personal responsibility, changing mindset, making informed choices, identifying life values and purpose, goal setting, leadership, and managing emotions. This course is designed for Early College students

### FYE-103 1 (1-0)

#### Career Exploration

This course is designed to assist students in developing a career path. Through self-assessment exercises, which evaluate skills, interests, personality, and values, students will become aware of various career options. Students will make informed decisions about choice of major and career goals based on research and reflection.

### FYE-104 2 (2-0)

#### College Study Skills

This course is designed to help students learn or improve upon their knowledge of college-level study and test-taking skills, learning processes, college resources, and attitudes and practices needed for successful learning.

## GEOG-GEOGRAPHY

### GEOG-102 3 (3-0)

#### Introduction to Geography

This course will introduce students to the various methods and disciplines which make up the diverse field of Geography. Topics covered include an introduction to core geographic concepts and maps, physical geography including landforms, weather, climate and natural resources, population geography, economic geography, urban geography, and the human impacts on the environment and the regional concept. Meets the Social Science requirement.

### GEOG-110 4 (4-2)

#### Physical Geography

An overview of the physical environment of planet Earth with emphasis on the atmosphere, hydrosphere, and lithosphere. It begins with Earth's place in the Universe, and continues with characteristics of past and current atmosphere, weather, water resources, climates and climatic changes, plate tectonics, minerals, rock types, wind processes, soils, rivers and river related landforms, glaciers and glacial landscapes, ocean and coastal processes, and erosion and weathering processes. Students will develop an understanding of Earth's vast systems and an appreciation of the relationship between human activities and environmental processes. The course includes an online lab. Meets the MTA Natural Science with lab requirement.

### GEOG-121 3 (3-0)

#### World Regional Geography

This course provides a survey of the world's twelve geographic regions utilizing key concepts of geography and organized around five themes of geography including: environment; population; culture; geopolitics; and economy and development. Course will utilize Google Earth and other online resources.

### GEOG-125 3 (3-0)

#### World Regional Geography – Developed World

Introduces students to the world's developed geographic regions as well as useful geographic concepts and tools. Each region will be discussed in terms of its history, culture, demographics, economies, natural resources, religions, climates, environmental issues, governments, plus challenges and prospects for the future. The regions covered include: North America, Europe, Russia and the Newly Independent States, Oceania, and East Asia. Meets the Social & Behavioral Science requirement.

### GEOG-126 3 (3-0)

#### World Regional Geography – Developing World

Introduces students to the world's developing geographic regions as well as useful geographic concepts and tools. Each region will be discussed in terms of its history, culture, demographics, economies, natural resources, religions, climates, environmental issues, governments, plus challenges and prospects for the future. The regions covered include: Latin America, North Africa and Southwest Asia, Sub-Saharan Africa, South Asia, and Southeast Asia. Meets the Social & Behavioral Science requirement.

### GEOG-150 2 (1-1)

#### Map, Compass, & GPS

This course provides a basic working knowledge in five topics: 1) Public Land Survey System divisions of townships and sections; 2) Interpreting a variety of maps, including types of maps, scales, symbology, legends, and mapping unique to timber harvesting; 3) the Global Positioning System (GPS), including the applications for land divisions and forestry with an emphasis on units mounted in the equipment; 4) Using a magnetic compass to traverse and orient a map, including the relationship of a compass to land divisions and GPS; and 5) Emergency electronic communications, including how to communicate emergency messages and requests for aid from the woodland environment. Prerequisites: E, M, R

## GIS-GEOGRAPHIC INFORMATION SYSTEMS

### GIS-201 3 (3-0)

#### Introduction to Geographic Information Systems

This course provides a foundation in geographic information systems (GIS) such as data types, cartography, queries, classification, basic editing, basic raster analysis, uses of GPS devices and related data map overlay techniques. The theory and operation of GPS receivers and data integration with GIS is covered in multi-week student initiated projects. Students will gain a clear understanding of the issues surrounding GIS, and how to conduct and present GIS research, and how GIS interacts with a wide variety of academic fields and scientific research. Prerequisites: E, M, R or permission of the instructor.

### GIS-202 3 (3-0)

#### Data Management

This course addresses the interpretation and understanding of a variety of data formats available in a geographic information system (GIS). It introduces the fundamental concepts of primary GIS data creation and discusses quantitative techniques for collection, classification, and management of geographical data. Course content is based upon the United States Department of Labor's Geospatial Technology Competency Model for entry level geospatial occupations including Geospatial or GIS Technicians and Technologists. Prerequisites: GIS 201 or permission of instructor.

**GIS-203 4 (3-1)****Spatial Analysis**

Introduces students to problem-solving and decision making using geospatial analysis techniques, applicable to a range of disciplines. Course is designed to be used as cross curriculum platform for working with other instructors interested in implementing GIS in their courses. Prerequisites: GIS 201 or permission of instructor

**GIS-204 4 (3-1)****Advanced Cartography**

This course introduces fundamental cartographic concepts. Successful students will be able to employ design principles to create and edit effective visual representations of data in different formats. Specific topics include the ethical and appropriate application of map scale, map projections, generalization, and symbolization. Prerequisites: GIS 201 or permission of instructor.

**GIS-205 4 (3-1)****Remote Sensing**

This course is an introduction to remote sensing of the Earth. Topics include the physical principles on which remote sensing is based, history and future trends, sensors and their characteristics, image data sources, and image classification, interpretation and analysis techniques. Course content is based upon the United States Department of Labor's Geospatial Technology Competency Model. Prerequisites: GIS 201 or permission of instructor.

**GIS-272 1-8****GIS-273 1-8****GIS-274 1-8****GIS Co-op Internship**

Directly related Information Technology work experience designed to provide students with "on the job" experience at business workplace. Outcomes of this experience will include employability skills, interpersonal communication skills, GIS data management skills and in depth knowledge of a particular Geospatial field. Qualified students are placed into pre-approved training worksites that are compatible with their career objectives, geographic preference, and qualifications. Prerequisite: GIS 201, GIS 202 and GIS 203 or permission of instructor.

**GRMN-GERMAN****GRMN-101 3 (3-0)****German Language & Culture I**

This course will provide the students with a sound basis for learning spoken and written German. Every effort will be made to present students with interesting opportunities for self-expression. Just as important as skills acquisition will be an exposure to contemporary life and culture in Germany, Switzerland, and Austria, centering around themes such as university life, shopping, geography, the German attitude toward privacy, theater, labor unions, the social position of women, and German folk music. Meets the Humanities requirement. Offered on demand.

**GRMN-102 3 (3-0)****German Language & Culture II**

This course is a continuation of GRMN-101. Both spoken and written German will be emphasized. Upon completion of this class, one will have a comprehensive knowledge of the language. German culture stressed in this class will include TV in Germany; Christmas customs; physical layout of cities, homes, and apartments in German speaking countries; study of Switzerland (languages, history, constitutional bodies); role of women in work force and politics; role of foreigners; the European Community; history on the two Germanys, Berlin, and Unified Germany (its problems and politics). Multi-media will be used in this class. Meets the Humanities requirement. Prerequisite: GRMN-101 or permission of instructor.

**HIST-HISTORY****HIST-101 3 (3-0)****Western Civilization to 1600**

A survey of the history of Western Civilization from its prehistoric roots through the Reformation Era. This study will investigate the origin and development of cultural trends from the civilizations of the Mediterranean through the era of European Feudalism, culminating in the emergence of Modern Europe. This course will include a study of political history, philosophy, literature, architecture, and religion. Meets the Humanities and Social & Behavioral Science requirements. Prerequisite: R. Normally offered in fall semester.

**HIST-101H 3 (3-0)****Western Civilization to 1600-Honors**

A survey of the history of Western Civilization from its prehistoric roots through the Reformation Era. This study will investigate the origin and development of cultural trends from the civilizations of the Mediterranean through the era of European Feudalism, culminating in the emergence of Modern Europe. This course will include a study of political history, philosophy, literature, architecture, and religion. Meets the Humanities and Social & Behavioral Science requirements. This is an Honors course which requires additional work and academic rigor. Prerequisite: R and acceptance into the Honors Program.

**HIST-102 3 (3-0)****Western Civilization 1600 to Present**

A continuation of HIST-101 emphasizing political, economic, and cultural changes of the 18<sup>th</sup> century, and the various forms of nationalism, international socialism, and their influences on the 19th and 20th century and the search for international peace with the increasing complexity of the emerging nations of the Third World. This course will include a study of political history, philosophy, and literature. HIST-101 is not required. Meets the Humanities and Social & Behavioral Science requirements. Prerequisite: R.

**HIST-102H 3 (3-0)****Western Civilization 1600 to Present-Honors**

A continuation of HIST-101 emphasizing political, economic, and cultural changes of the 18<sup>th</sup> century, and the various forms of nationalism, international socialism, and their influences on the 19th and 20th century and the search for international peace with the increasing complexity of the emerging nations of the Third World. This course will include a study of political history, philosophy, and literature. HIST-101 is not required. Meets the Humanities and Social & Behavioral Science requirements. This is an Honors course which requires additional work and academic rigor. Prerequisites: R and acceptance into the Honors Program.

**HIST-211 3 (3-0)****United States History to 1865**

This course provides students with an opportunity to learn the history of the United States from its colonial origins to the Civil War, with an emphasis on the dynamics of sectionalism that led to the War Between the States. Political, economic, and social topics are studied in relationship to the course theme. Meets the Social & Behavioral Science requirement.

**HIST-211H 3 (3-0)****United States History to 1865-Honors**

This course provides students with an opportunity to learn the history of the United States from its colonial origins to the Civil War, with an emphasis on the dynamics of sectionalism that led to the War Between the States. Political, economic, and social topics are studied in relationship to the course theme. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science requirement. Prerequisite: Acceptance into the Honors Program.

**HIST-212 3 (3-0)****United States History 1865 - Present**

This course provides students with an opportunity to learn the history of the United States from the post-Civil War era into the modern context, with an emphasis on the emergence of the United States as a progressive world power. Political, economic, and social topics are studied in relationship to the course theme. Meets the Social & Behavioral Science requirement.

**HIST-212H 3 (3-0)****United States History 1865 - Present - Honors**

This course provides students with an opportunity to learn the history of the United States from the post-Civil War era into the modern context, with an emphasis on the emergence of the United States as a progressive world power. Political, economic, and social topics are studied in relationship to the course theme. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science requirement. Prerequisite: Acceptance into the Honors Program.

**HIST-220** 3 (3-0)  
**Michigan History**

This course provides students with the opportunity to study, in a chronological and seminar-like approach, the progression of the collective choices of generations of individual Americans in Michigan from the Colonial Era to the late 20th century Michigan economy. The organization of this course will include social, economic and political issues. Meets the Social & Behavioral Science requirement.

**HIST-224** 3 (3-0)  
**Native American History**

This course provides students with the opportunity to learn about Native American history from the pre-contact period to the modern era. A variety of Native American cultures will be studied in various historical contexts, along with the cultural, economic, and political interrelationships of First Peoples with other cultural groups. Meets the Social & Behavioral Science requirement.

**HIST-228** 3 (3-0)  
**American Women's History**

This course provides students with the opportunity to learn about women's history in the United States from the Colonial to the modern era by examining the social, cultural, political, and economic experiences and roles of women. Meets Social & Behavioral Science requirement.

**HIST-232** 3 (3-0)  
**History of Technology in America**

This course provides students with the opportunity to learn about the history of technology in the United States. International contexts will be covered, but primary emphasis will be on the history and role of technological development and innovation in America. Given that the United States often is labeled the "technological society," broadly speaking students will be provided with the opportunity to learn about the various intersections of technology with society and politics from the Colonial Era through today. This includes coverage of the history of communication, transportation, applied and general science, and medical technologies. Meets the Social and Behavioral Sciences requirement. Offered on a rotating or per-demand basis.

**HIST-232H** 3 (3-0)  
**History of Technology in America  
Honors**

This course provides students with the opportunity to learn about the history of technology in the United States. International contexts will be covered, but primary emphasis will be on the history and role of technological development and innovation in America. Given that the United States often is labeled the "technological society," broadly speaking students will be provided with the opportunity to learn about the various intersections of technology with society and politics from the Colonial Era through today. This includes coverage of the history of communication, transportation, applied and general science, and medical technologies. Meets the Social and Behavioral Sciences requirement. Offered on a rotating or per-demand basis. This is an Honors course which requires additional work and academic rigor. Prerequisites: Acceptance into the Honors Program.

**HLTH-HEALTH**

**HLTH-100** 1 (1-0)  
**Careers in Health Care**

This course will examine career opportunities available in the health professions. Students will be able to explore areas of interest and trends in health care careers, while selecting an academic path that will lead the student to a health profession program of study.

**HLTH-102** 3 (3-0)  
**Orientation to Health Care**

This course will discuss segments of the health care industry, describing the historical background, functions, interrelationships, and the future role of each as presented.

**HLTH-103** 1 (1-0)  
**Safety in Health Occupations**

This course provides an introduction to workplace health and safety including potential chemical and physical hazards, OSHA standards for employees and employers, Joint Commission safety and environmental standards, emergency preparedness, and hazard communication plans.

**HLTH-104** 1 (0-1)  
**Clinical Skills for Health Providers**

This course provides an introduction to basic skills that entry level health care providers should possess, such as proficiency in infection control, Universal Precautions, safety precautions, vital signs, and communications with clients and professionals in health care.

**HLTH-110** 1 (1-0)  
**Introduction to Medical Vocabulary**

This course provides an introduction to terminology related to areas of medical sciences, health care services, and paramedical studies.

**HLTH-115** 1 (1-0)  
**Introduction to Pharmacology**

This course introduces the student to the fundamental principles of pharmacology. Emphasis will be placed on the kinetic and dynamic processes of pharmacotherapy across the lifespan, drug classifications, as well as the roles and responsibilities of safe drug administration. Prerequisite: E, R, officially accepted into the A.D.N. or A.D.N. Completion Program and following the required sequence of courses.

**HLTH-118** 3 (3-0)  
**Medical Terminology I**

This course is designed to furnish the basic tools necessary for building a medical vocabulary. The student will become acquainted with medical terms as they pertain to human anatomy, physiology, and disease.

**HLTH-119** 2 (2-0)  
**Medical Terminology II**

Medical Terminology II is designed to continue the expansion of the knowledge gained in Medical Terminology I. The student will be able to define the structure of medical terms as they relate to prefixes, suffixes, and basic word structure. This class will incorporate medical terms related to oncology, radiology, nuclear medicine, radiation therapy, pharmacology, laboratory, history and physicals, and surgery. All of these subjects will be studied in more detail as they relate to analyzing the structure of medical terms and how they relate to all systems. Prerequisite: HLTH-118.

**HLTH-120** 1 (1-0)  
**Introduction to Electronic Health Records**

This course focuses on introducing basic concepts of understanding electronic health record systems, associated terminology, and application of the practical use of such systems in a variety of simulated health settings.

**HLTH-135** 2 (1-2)  
**Obtaining a Blood Specimen**

This course provides the student with an introduction to the knowledge and behaviors required to collect, process, and transport specimens for laboratory analysis. Prerequisites: BIOL 104. Co-requisites: HLTH 103, HLTH 104.

**HLTH-140** 2(2-0)  
**Dosage Calculation**

This course is intended to teach the mathematical skills and principles that are required to ensure the safe administration of medications in today's healthcare settings. Topics will include: fractions, decimals, percentages, ratios, dimensional analysis, measurement of oral and parenteral drugs, calculations of pediatric dosages, preparation of solutions, household and metric systems of measurement and conversion between the two systems. Emphasis will be on developing good problem solving skills and the application of those skills to the safe administration of medications in the healthcare setting. Prerequisites: MATH-085 with "C" grade or better, or an appropriate score on the mathematics placement test.

**HLTH-146** 1 (1-0)  
**First Aid/Basic Life Support for  
Healthcare Providers  
(formerly PHED-146)**

This course will train nursing students and healthcare providers how to recognize and respond to life-threatening emergencies, as well as give first aid to adults, children, and infants. Students will demonstrate skills needed to identify, respond appropriately, and perform necessary interventions, including the use of advanced mask and resuscitation bag techniques.

**HLTH-147** 1 (1-0)  
**First Aid/Heartsaver for Non-  
Healthcare Providers  
(formerly PHED-147)**

This course will train non-healthcare students to recognize and respond to life-threatening emergencies, such as cardiac arrest and choking. It will also instruct students how to administer first aid to adults, children, and infants. Students will demonstrate skills needed to identify, respond appropriately, and perform necessary interventions.

**HLTH-205** 3 (3-0)  
**Nutrition**

This course incorporates nutritional principles which are critical to the human life cycle. Scientific information is introduced to enable student understanding of nutritional issues associated with the promotion and maintenance of optimal health and the nutritional management of various disease states.

- HLTH-271** 1 (1-0)
- HLTH-272** 2 (2-0)
- HLTH-273** 3 (3-0)
- HLTH-274** 4 (4-0)

**Health Care Co-op**

This co-operative work experience will provide students with an opportunity to receive credit for directly related health care experiences in the specialty field of choice. The student experience outcomes include observation and hands-on practice in addition to the development of employability, communication, and team-building skills. Students must complete 40 hours per credit on the job. The Co-op criteria and specific requirements are outlined in the Bay College Co-operative Education and Internship Handbook. Prerequisites: HLTH-100, HLTH-103, HLTH-104, HLTH-110; 25 credits completed in Health Careers Certificate Program; a grade point average of 2.0 or higher; proof of being certified from the American Heart Association CPR for Healthcare Provider Course; completion of health physical and immunizations; successfully passed a Live Scan fingerprint criminal background check and 7 panel drug screen; and permission of advisor.

**HMG-T-HOSPITALITY  
MANAGEMENT**

**HMG-T-101** 3 (3-0)  
**Introduction to the Hospitality Industry**

This course will take a management perspective in introducing students to the organization and structure of hotels, restaurants, clubs, cruise ships, and casino hotels.

**HMG-T-102** 2 (2-0)  
**Food Safety: ServeSafe**

This course is designed to introduce students to the importance of food safety throughout the restaurant and foodservice industry. This course will cover information on providing safe foods, contamination, and food allergies, the flow of food through the food operations system, sanitary facilities, and pest management regulations and training.

**HMG-T-103** 3 (3-0)  
**Supervision in the Hospitality Industry**

This course will provide students with the principles of supervision as they apply to the hospitality industry. Students will be prepared to meet the expectations of managers, guests, employees, and governmental agencies.

**HMG-T-201** 3 (3-0)  
**Planning and Control for Food & Beverage Operations**

This course will provide students with the knowledge and skills necessary for the control processes used to reduce costs in food and beverage operations worldwide, knowledge on multi-unit management, and an increase focus on technological applications.

**HMG-T-202** 3 (3-0)  
**Hotel Operations Management**

This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel property, from the reservations process to account settlement, housekeeping and security. Students will demonstrate their knowledge and management skills in the delivery of high quality customer service, front desk profitability, and e-commerce impact on hotel operations.

**HMG-T-204** 3 (3-0)  
**Managing Human Resources in the Hospitality Industry**

In this course students will demonstrate their knowledge and skill level in the management of human resources within a hospitality operation; including, trends and approaches to performance appraisals, orientation programs, maintaining employee demographics, and managing union and labor relation contracts.

**HMG-T-205** 3 (3-0)  
**Hospitality Purchasing Management**

In this course, students will understand and demonstrate their knowledge in the principles and practices of purchasing; including negotiation, data management, distribution, price forecasting and market analysis. The students will develop critical thinking and problem solving skills, develop math and accounting skills, and data management as they apply to purchasing management.

**HMG-T-206** 3 (3-0)  
**Food & Beverage Operations Management**

This course is designed to provide students with a basic understanding of the management processes in food and beverage operations. All aspects of food and beverage operations are covered, including organization, marketing, menus, costs and pricing, production, service, safety and finances.

**H-SER-HUMAN SERVICES**

**H-SER-100** 3 (3-0)  
**Introduction to Human Services**

This course introduces the student to the basic conceptual knowledge of social service agencies and the role of the human service worker. Included are the beginning skills for social service practice and discussion of the ethical commitments and legal considerations underlying professional human service careers. Students will gain first-hand knowledge of working with various human service populations by volunteering with local agencies and tying course material to their experience. Various groups and populations that are served by human service workers are also covered.

**H-SER-150** 3 (3-0)  
**Ethics in Human Services**

Ethical principles and practices of human service workers are examined and practiced to prepare students for work in human services agencies. The roles, functions, and legal and ethical responsibilities of the human service worker are investigated and discussed throughout. Students will learn the importance of using ethics to evaluate situations with clients and coworkers in human services.

**H-SER-160** 3 (3-0)  
**Interviewing Strategies & Techniques**

An introduction to the components of interviewing and counseling within human services. The characteristics and roles of interviewer and counselor will be explored and practiced by the student. This class involves role play, video analysis, and audio and video taping of student interviews. Prerequisites: H-SER-100, COMM-103.

**H-SER-272** 3 (3-0)  
**H-SER-273** 3 (3-0)

**Human Services Internship**

Students who have satisfactorily completed human service courses may be placed with an approved human service agency on a part-time basis and earn credits for satisfactory work performance. Participation requires approval of the human service coordinator. Evaluation of student's performance will be carried out by the student's supervisor at the participating agency in conjunction with the coordinator. Prerequisites: H-SER-100, H-SER-150, H-SER-160, and approval of the human service coordinator and agency supervisor. Forty contact hours are required for every hour of credit earned for a total of 120 hours. Students must take H-SER-272 and may elect to take H-SER-273; however, each course must be with a different agency. Student must be a sophomore and in good standing with a GPA of 2.0 or greater. A background check is required for internship placement.

**Internships may require that the student pass a criminal background check.**

**LEAD-LEADERSHIP**

**LEAD-200** 3(3-0)  
**Introduction to Leadership**

This course introduces students to the historical and theoretical foundations of effective leadership and enables students to directly apply this knowledge to assess and develop their own practical leadership skills. The course examines leadership theories, styles, and approaches related to power, ethics, gender, socio-cultural issues, and global social change. Case studies, group activities, role playing, leadership interviews, guest speakers, film analyses, and personal behavioral assessment surveys are utilized. The course complements several academic programs including business, education, public administration, health professions, military science, human services, law, organizational communication, and public relations. Meets the Social & Behavioral Science requirement. Prerequisites: E, R.

**LEAD-200H 3(3-0)****Introduction to Leadership – Honors**

This course introduces students to the historical and theoretical foundations of effective leadership, and enables students to directly apply this knowledge to assess and develop their own practical leadership skills. The course examines leadership theories, styles, and approaches related to power, ethics, gender, socio-cultural issues, and global social change. Case studies, group activities, role playing, leadership interviews, guest speakers, film analyses, and personal behavioral assessment surveys are utilized. The course complements several academic programs including business, education, public administration, health professions, military science, human services, law, organizational communication, and public relations. Meets the Social & Behavioral Science requirement. This is an Honors course which requires additional work and academic rigor. Prerequisites: Acceptance into the Honors Program, E, R.

**MATH-MATHEMATICS****MATH-085 4(4-0)****Pre-Algebra**

This course is designed to strengthen the arithmetic skills of the students. Topics covered include: operation of whole numbers, fractions, percents, decimals, ratios, integers, exponents, operations with signed numbers, an introduction to geometry, and an introduction to algebra. Information on math test taking strategies and study skills will be presented and practiced along with the principles of On Course. This course is developmental in nature and cannot be used toward any associate degree. No calculators are permitted. Normally offered each semester.

**MATH-095 4 (4-0)****Basic Algebra**

A study of the fundamental concepts and operations of algebra, polynomials, equations, application problems, factoring, introduction to functions and graphs, systems of linear equations, exponents, and simple quadratic equations. This course is developmental in nature and cannot be used toward any associate degree. Prerequisite: MATH-085 with a "C" grade or better or an appropriate score on the mathematics placement test. No calculators are permitted. Normally offered each semester.

**MATH-097 4 (4-0)****Mathematical Literacy**

MATH-097 is designed for students in majors that do not require Intermediate or College Algebra. It can serve as a pre-requisite to MATH-107 Liberal Arts Math (which meets the MTA math requirement) or BUSN-177 Business Math. The course integrates numeracy, algebraic reasoning, data literacy, functions, equations, and modeling along with college success content. It is a Transitional Studies course and does not meet the MTA math requirement. A scientific calculator is required. Prerequisite: MATH-085 Pre-Algebra with a "C" or better OR appropriate score on a math placement test.

**MATH-098 6 (6-0)****Accelerated Pre & Basic Algebra**

This course is designed for a student who is comfortable with the basic arithmetic operations without a calculator to quickly review arithmetical concepts, and provide the student with a solid algebraic foundation which is required in college level math courses. Topics covered include: operation of whole numbers, fractions, percentages, decimals, ratios, integers, exponents, operations with signed numbers, an introduction to geometry, algebra, polynomials, equations, and stated problems, factoring, introduction to functions and graphs, systems of linear equations, exponents, and quadratic equations. Information on math test taking strategies and study skills will be presented and practiced along with the principles of On Course. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree.

**MATH-102 4 (4-0)****Introduction to Technical Math**

Topics include basic algebra formula usage, signed numbers, practical measurements, metrics and conversions, relative error, basic geometry, and right triangle trigonometry. This course is designed to meet occupational program requirements or as a preparation for MATH-106 for those needing more advanced mathematics. Scientific/graphing calculator required. Prerequisite: MATH-085 with a "C" or better or appropriate score on the mathematics placement test. Normally offered each semester.

**MATH-105 4 (4-0)****Intermediate Algebra**

A study of real numbers, algebraic expressions, exponents, complex numbers, solution of linear inequalities, quadratic equations and absolute value equations, equations of lines, conic sections, functions, exponential functions, logarithmic functions, exponential and logarithmic equations, and systems of equations. This course is designed to prepare students for MATH-110 College Algebra. This course may be used as an elective course; however, it does not fulfill the natural science requirement for the Associate of Science degree or the MTA agreement. A scientific calculator is required. Prerequisite: MATH-095 or MATH-098 with a "C" grade or better or appropriate score in the mathematics placement test. Normally offered each semester.

**MATH-106 4 (4-0)****Technical Algebra & Trigonometry I**

Topics include: A review of geometry, linear and quadratic equations, determinants, systems of equations, exponents, radicals, scientific notation, functions and graphs, trigonometry, vectors, radians measure, and technical formulas. This course is intended as a capstone course for technical students. Not intended for students requiring additional math courses. Prerequisite: MATH-102 or MATH-095 or MATH-098 with a "C" or better or appropriate score on the mathematics placement test. Graphing calculator is required.

**MATH-107 4 (4-0)****Liberal Arts Mathematics**

Upon successful completion of this course, the student will understand and be able to use mathematics in a variety of practical applications, including topics in graph theory, probability, statistics, theory of numbers, coding theory, symmetry, and financial math. These topics will be presented along with real world applications such as street networks, planning and scheduling, and voting schemes, with an emphasis on problem solving. This course is designed for transfer students in the Associate of Arts program and is an MTA approved course. A scientific calculator is required. Prerequisite: MATH-095, MATH-097, or MATH-098 with a "C" or better or appropriate score on the mathematics placement test. Normally offered each semester.

**MATH-110 4 (4-0)****College Algebra**

A study of equations, systems of equations, inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, complex numbers, and theory of equations. Prerequisite: MATH-105 with a grade of "C" or better or an appropriate score on the mathematics placement test. Graphing calculator is required. Normally offered each semester.

**MATH-111 3 (3-0)****Trigonometry**

A study of the trigonometric functions, their properties, solutions of right and oblique triangles, radian measure, graphs, identities, trigonometric equations, applications, with optional topics of vectors in the plane, complex numbers, and polar coordinates. A graphing calculator is required. Prerequisite: MATH-110 with a "C" or better or appropriate score on the mathematics placement test. Qualified students may enroll in MATH-111 and MATH-141 during the same semester. Normally offered each semester.

**MATH-130 4 (4-0)****Mathematics for Elementary Teachers I**

Introduction to logic and problem solving, set theory, numeration systems, fundamental concepts and structures of numbers and mathematics. Course is designed for elementary education students. Prerequisites: MATH-105 with a "C" or better or appropriate score on mathematics placement test.

**MATH-141 5 (5-0)****Analytical Geometry & Calculus I**

Functions and graphs, limits, differentiation of algebraic and trigonometric functions, exponential, and logarithmic functions, applications, the Mean Value theorem, definite and indefinite integrals, and the Fundamental Theorem of integral calculus. Prerequisites: MATH-110 and MATH-111 (or high school trigonometry) with a "C" or better or appropriate score on mathematics placement test. Qualified students may enroll in MATH-111 and MATH-141 during the same semester. Graphing calculator required. Normally offered each semester.

**MATH-142 5 (5-0)****Analytical Geometry & Calculus II**

Continuation of MATH-141 with techniques of integration; exponential, logarithmic, inverse trigonometric and hyperbolic functions, vectors; L'Hospital's Rule; improper integrals, sequences and series. Prerequisite: MATH-141 with a "C" or better. Graphing calculator required. Normally offered in the Winter semester.

**MATH-210 4 (4-0)****Introduction to Statistics**

A computer supported study of descriptive statistics, statistical inference, probability distribution, sampling, estimation, testing hypotheses, correlation, and regression. Prerequisite: MATH-105 or MATH-107 with a "C" or better or appropriate score on the mathematics placement test. Scientific / graphing calculator required. Satisfies MTA Math requirement. Normally offered each semester.

**MATH-243 5 (5-0)****Analytical Geometry & Calculus III**

Continuation of MATH-142 with topics including analytical geometry and three dimensional space, conics, spherical, polar, cylindrical coordinates, partial derivatives, multiple integration, and line integrals. Prerequisite: MATH-142 with a "C" or better. Graphing calculator required. Normally offered in Fall.

**MATH-244 3 (3-0)****Differential Equations**

Topics will include first order equations, linear and nonlinear equations, separation of variables, integration factors, exact equations, Bernoulli equations, variation of parameters, reduction of order, differential operators, Laplace transforms, applications, and solving systems of differential equations. Graphing calculator required. Prerequisite: MATH-243 with a "C" or better. Normally offered in the Winter semester.

**MATH-250 3 (3-0)****Introduction to Linear Algebra**

Upon successful completion of this course, a student should understand systems of equations, vectors and vector notation, matrices and matrix algebra, orthogonality, determinants, subspaces, eigenvalues, and eigenvectors. Prerequisites: MATH-141 with a "C" or better. Normally offered in the Winter.

**MUSC-MUSIC****MUSC-101 1 (0-1)****Music for Early Childhood Educators**

This course will help students understand the importance of exposing very young children to music and enable students to lead music in the early childhood environment with confidence and with an understanding of basic principles of music skill acquisition in early childhood.

**MUSC-109, 110, 111, 112 1(1-0)****Applied Music**

Individual instruction on specific instruments or voice with emphasis on correct physical orientation to the instrument (or voice), study of appropriate exercise and solo repertoire, including scales, arpeggios, etc., and preparation and performance of standard compositions at appropriate level for the student.

**MUSC-141 1 (0-1)****Chorus**

An opportunity for students to practice and perform a variety of choral music under the direction of the Bay de Noc Choral Society.

**MUSC-151 2 (2-0)****Elements of Music**

This course introduces the fundamentals of music to non-music majors and music majors who have not yet had music theory. Pitch, rhythm, melody, harmony, and notation will be explored. Lectures will include numerous musical examples to illustrate musical concepts and structures. Ear training will be an important and regular activity for this course.

**MUSC-153 3 (3-0)****Music Appreciation**

Music Appreciation is a comprehensive survey of western music form and style from the Medieval period to present day. Asian, African and Native American musical styles are also explored. Biographical information on major composers is included and students will recognize many of their best known works from each style period. A study of each period also includes historical background on art, world events, technology and political and religious influences. Class discussion is encouraged as these "external factors" still affect the arts today. Each class meeting involves lecture and multimedia presentations. Music Appreciation is offered to general college students who have little or no musical background. Meets Humanities requirement.

**MUSC-153H 3 (3-0)****Music Appreciation – Honors**

Music Appreciation is a comprehensive survey of western music form and style from the Medieval period to present day. Asian, African, and Native American musical styles are also explored. Biographical information on major composers is included and students will recognize many of their best known works from each style period. A study of each period also includes historical background on art, world events, technology and political and religious influences. Class discussion is encouraged as these "external factors" still affect the arts today. Each class meeting involves lecture and multimedia presentations. Music Appreciation is offered to general college students who have little or no musical background. Meets Humanities requirement. This is an Honors course which requires additional work and academic rigor. Prerequisite: Acceptance into the Honors Program.

**MUSC-154 3 (3-0)****Popular Music Styles**

A survey of popular music styles from 1900 to present day. Students will recognize various styles which will include ragtime, pop, swing, big band, jazz, blues, country, rock, and hip hop in relation to historical, political, and technical influences.

**MUSC-220 4 (4-0)****Music Theory**

Music Theory is a course for the student interested in a music curriculum as a major or minor field of study. It is concerned with the theoretical concepts on which music is based, including melodic, rhythmic, harmonic, contrapuntal, and architectural factors. Three areas will be stressed: 1) written concepts, terminology, and notation; 2) exercises in music reading and sight-singing; and 3) practice in ear training and dictation. Prerequisite: MUSC-151 or permission of instructor.

**NURS-NURSING****NURS-101 2 (2-0)****Nursing Fundamentals**

The purpose of this theory course is to aid the student in acquiring the basic knowledge of nursing fundamentals. Students are introduced to the theory, interpersonal skills, and nursing procedures that will enable them to work successfully with persons, to be able to recognize through assessment and evaluation, changes in pattern manifestation. The nursing process, nursing diagnosis, and nursing care planning fundamental to nursing are introduced and discussed. Development of cognitive skills in the area of nursing assessment will expand the nurses' contribution to the health of persons. Prerequisite: Admission to the Practical Nursing Program. Co-requisite: NURS-102.

**NURS-102 2 (0-6)****Nursing Fundamental Lab**

This course is designed to develop cognitive, affective, psychomotor, communication, and assessment skills in a simulated clinical laboratory setting. Emphasis is on utilizing nursing concepts, beginning assessment and interview skills as a basis for nursing practice. This is taught using the conceptual framework of Martha Rogers "Science of Unitary Human Beings," along with Marjory Gordon's Functional Health Patterns. Prerequisite: Admission to the Practical Nursing Program. Co-requisite: NURS-101.

**NURS-107 2 (0-6)****Nursing Fundamental Clinics**

This clinical course provides the student with the opportunity to apply a network of skills to the practice of nursing. Focus is on concepts of assessment and evaluation of pattern manifestation, communication skills, and basic patient care in the long term care facility. Prerequisites: BIOL-104, NURS-101, NURS-102, NURS-116.

**NURS-115 5 (2-5)****Nursing Assistant Course**

This course, which is approved by the State of Michigan, is designed to prepare students to function as nursing assistants in long-term care facilities. This 5-7 week course consists of 40 hours lecture, 40 hours laboratory training, and 40 hours clinical training. Upon successful completion, students are eligible to take the State Competency Evaluation Test.

**NURS-114 2 (2-0)****PN Pharmacology I**

The purpose of this course is to aid the student in acquiring the fundamental principles of pharmacology. Major content areas include basic concepts of pharmacology, legal aspects, National Patient Safety Goals (client rights to safety in medication administration), nutrition as it relates to pharmacology, and identifying pattern manifestations of children, pregnant women, and adults. Other content areas include the introduction of the therapeutic effects of pain medications, and anti-diabetic medications; pharmacological effects on body tissues, human responses to drug therapy, and the application of assessment and evaluation in relation to prescribed drug therapy. Prerequisites: Admission to the Practical Nursing Program.

**NURS-116 1 (1-0)**  
**Pharmacology I**

The purpose of this course is to aid the student in acquiring the fundamental principles of pharmacology. Major content areas include basic concepts of pharmacology, legal aspects, National Patient Safety Goals (client rights to safety in medication administration), nutrition as it relates to pharmacology, and identifying pattern manifestations of children, pregnant women, and adults. Other content areas include the introduction of the therapeutic effects of pain medications, and anti-diabetic medications: pharmacological effects on body tissues, human responses to drug therapy, and the application of assessment and evaluation in relation to prescribed drug therapy in the long-term care setting. Prerequisites: Admission to the Practical Nursing Program.

**NURS-117 2 (2-0)**  
**Pharmacology II**

The purpose of this course is to introduce the student to clinical therapy with emphasis on the knowledge needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs. Major content areas include groups of therapeutic drugs, prototypes of drug groups, commonly prescribed individual drugs, effects on body tissues, human responses to drug therapy, in terms of pattern manifestation and applying assessment and evaluation, in relation to prescribed drug therapy regimens. Prerequisite: NURS-114.

**NURS-118 2 (2-0)**  
**Nursing Informatics**

The purpose of this course is to gain a basic understanding of nursing informatics and its application to education, research and practice in nursing and health occupation professions. Topics will include computer and informatics literacy, informatics competencies, application of informatics to healthcare trends. Competencies taught will meet the American Nurses Association Scope and Standards of Nursing Informatics Practice (ANA, 2010) for beginning nurses. Prerequisites: Officially accepted into the ADN Program or permission of the instructor and basic computer and office software skills.

**NURS-120 3 (3-0)**  
**Adult Health Nursing I**

This theory course emphasizes concepts and the application of Martha Rogers Science of Unitary Human Beings. Students will utilize the nursing process to identify human patterning practice methods to assess and care for adult clients experiencing common health care problems. Core content will explore: critical thinking processes, the health care delivery system, legal and ethical responsibilities, cultural diversity, wellness concepts, alternative and complementary therapies, dealing with loss/grief/death, fluid and electrolyte management, acid-base balance, care of the surgical client, care of clients in rehab/hospice environments, care of geriatric clients, and care of clients with respiratory, cardiovascular, hematologic and lymphatic disorders. Prerequisites: NURS 107. Co-Prerequisite: NURS-121

**NURS-121 2 (0-6)**  
**Adult Health Clinic I**

This clinical course emphasizes the analytical use and application of Martha Rogers Science of Unitary Human Beings. Core content will focus on the development of health patterning practice skills to create a comprehensive nursing care plan that provides holistic care for adults experiencing common health care problems in both acute care and outpatient environments. Prerequisites: NURS-107. Co-Prerequisite: NURS 120

**NURS-122 3 (3-0)**  
**Adult Health Nursing II**

This theoretical course continues to build upon content from NURS-120 and expands the student's knowledge base in utilizing the nursing process and health patterning practice skills to provide holistic, comprehensive care to adult clients in the following areas: body defenses (integumentary system, immune system, HIV/AIDS); control, mobility, coordination and regulation (musculoskeletal system, neurological system, sensory system, endocrine system, gastrointestinal and urinary systems, male & female reproductive systems, sexually transmitted diseases); and mental integrity (mental illness). Prerequisites: NURS-120, NURS 121. Co-requisite: NURS-123.

**NURS-123 2 (0-6)**  
**Adult Health Clinic Nursing II**

This clinical nursing course builds upon the concepts introduced in NURS-121. Students will continue to develop and perform health patterning practice skills to create holistic, comprehensive nursing care plans for adult clients experiencing more complex health care problems in the acute care environment, with observational experiences in Home Health. Prerequisites: NURS-120, NURS-121. Co-requisite: NURS-122, NURS 140.

**NURS-127 4 (4-0)**  
**PN Adult Health Nursing**

This Theory course emphasizes concepts and the application of Martha Rogers Science of Unitary Human Beings. Students will utilize the nursing process to identify human patterning practice methods to assess and care for adult clients experiencing common health care problems. Core content will explore: critical thinking processes, the health care delivery system, legal and ethical responsibilities, cultural diversity, wellness concepts, alternative and complementary therapies, dealing with loss/grief/death, fluid and electrolyte management, acid-base balance, care of the surgical client, care of clients in rehab/hospice environments, care of geriatric clients, and care of clients with disorders associated with multiple body systems, and mental health functions. Prerequisites: NURS-107. Co-requisites: NURS 128

**NURS-128 2 (0-6)**  
**PH Adult Health Nursing Clinic**

This clinical/lab/simulation course emphasizes the analytical use and application of Martha Rogers Science of Unitary Human Beings. Core content will focus on the development of health patterning practice skills to create and provide comprehensive holistic nursing care for patients across the life span experiencing common medical/ surgical problems in acute care and outpatient environments. Prerequisites: NURS-107. Co-Prerequisite: NURS-127

**NURS-130 6 (3-9)**  
**Foundations of Nursing**

This introductory course is designed to provide students with the foundational concepts of professional, evidence-based nursing practice. Emphasis is placed on the identification of basic human profile needs, physical assessment and the nursing process, fundamental nursing skills, professional practice, and concepts relevant to patient-centered nursing care across the lifespan. This course includes a lecture, laboratory and clinical component. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-134 5 (3-6)**  
**Health Concepts I**

The didactic portion of this course is designed to help beginning-level students develop an understanding of concepts within the domains of the individual, healthcare and nursing. Emphasis is placed on the concepts of Homeostasis and Regulation, Protection and Movement, Oxygenation and Hemostasis, Coping and Stress Tolerance, Attributes and Roles, Care Competency, and Health Care Delivery. The clinical/lab/simulation component of this course is designed to assist students in the application and interpretation of individual, health care and nursing concepts in adult patients experiencing common health alteration in the acute care setting. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-136 2 (2-0)**  
**Leadership in Nursing**

This course is designed to further develop the associate degree nursing student use of the concepts within the three domains of profile, process, and nursing. Emphasis is placed on the concepts of: conflict and violence in the workplace, health-wellness and illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. There will also be a review of history of nursing and how it continues to impact our current role and attitudes in the profession of nursing. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-138 5 (3-6)**  
**Behavioral Health Nursing**

This course is designed to provide instructional, clinical/ lab learning experiences in the provision of evidence-based nursing care to individuals experiencing psychiatric mental health disorders. The lecture portion of this course will emphasize the concepts of mood & affect, stress & coping, advocacy, safety, therapeutic communication and managing care. The clinical and lab components of this course are designed to assist students in integrating critical thinking and decision making throughout the nursing process to improve the care of patients experiencing psychiatric mental health disorders. Prerequisite: PSYC-201 and official acceptance into the ADN program and following the required sequence of courses.

**NURS-140** 5 (3-6)  
**Introduction to Family Nursing**

The focus of this theory and clinical course will be the utilization of the nursing process in the care of the family throughout the childbearing years, newborn period, and during childhood. The theoretical aspect of the course introduces basic nursing care of the family unit, including: human reproduction; pregnancy; antepartum, intrapartum, and postpartum care; newborn care; growth and development; and care of the child with common diseases and illnesses. Assessment of the various life styles, cultures and concepts of the family, family roles, and interdependent relationships as they relate to the childbearing years will be incorporated. The clinical aspect of this course involves direct individual nursing care of the obstetric, neonatal, and pediatric clients (gynecologic clients in certain facilities). Assessment of the client and family needs will be done utilizing Roger's Science of Unitary Human Beings, Maslow's Hierarchy of Needs, Erikson's Eight Stages of Development, and Gordon's Functional Health Patterns. Co-requisites: NURS-122, NURS-123.

**NURS-141** 4 (3-3)  
**PN Family Nursing: Introduction**

The focus of this theory and clinical course will be the utilization of the nursing process in the care of the family throughout the childbearing years, newborn period, and during childhood. The theoretical aspect of this course introduces basic nursing care of the family unit, including: human reproduction, pregnancy, antepartum, intrapartum, and postpartum care, newborn care, growth and development, and care of the child with common diseases and illnesses. Assessment of the various lifestyles, cultures, and concepts of the family, family roles, and interdependent relationships as they relate to the childbearing years will be incorporated. The clinical aspect of this course involves direct individual nursing care of the obstetrical, neonatal, and pediatric clients (gynecologic clients in certain facilities). Assessment of the client and family needs will be done utilizing Roger's Science of Unitary Human Beings, Maslow's Hierarchy of Needs, Erikson's Eight Stages of Development, and Gordon's Functional Health Patterns. Co-requisites: NURS-127, NURS-128

**NURS-142** 3 (3-0)  
**Bridge to RN Practice I**

This course is designed for the Licensed Practical Nurse transitioning to Registered Nursing Practice. Emphasis is placed on introduction to the concepts of professional nursing practice as a registered nurse with a focus on concepts of professional nursing practice and patient profile related to the identification of basic human needs, the nursing process, and other concepts relevant to patient-centered nursing care across the lifespan. Additional emphasis is placed on the concepts of: conflict and violence in the workplace, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. There will also be review of the historical perspectives of nursing and its impact on the current role of the nurse and the healthcare environment. Prerequisites: Officially accepted into the ADN program and following the required sequence of courses in the LPN to RN Bridge Track of ADN program. Unencumbered LPN licensure. Co-requisites: To be taken concurrently with NURS-143 Bridge to RN II

**NURS-143** 1 (0-3)  
**Bridge to RN Practice II**

This course is designed for the Licensed Practical Nurse transitioning to Registered Nursing Practice. Emphasis is placed on introduction of applying concepts of professional nursing practice as a registered nurse with a focus on concepts of professional nursing practice and patient profile related to patient-centered nursing care across the lifespan in the lab setting. This course is a laboratory course with a focus on transitioning from LPN to RN assessment and application of the nursing process to all age groups and review of LPN skills, introduction of beginning RN skills and safe medication administration in preparation for RN clinical rotations. This course is intended to complement content taught in Bridge to RN Practice I. Prerequisites: Officially accepted into the ADN program and following the required sequence of courses in the LPN to RN Bridge Track of ADN Program. Unencumbered LPN licensure. Co-requisites: To be taken concurrently with NURS-142 Bridge to RN Practice I

**NURS-144** 5 (3-6)  
**Health Concepts Bridge**

This course is designed for the Licensed Practical Nurse transitioning to Registered Nursing Practice. The didactic portion of this course will build on concepts introduced in Bridge to RN Practice I and II, and provide for further understanding of concepts within the domains of the individual, healthcare and nursing. Major emphasis on multiple concepts of Homeostasis and Regulation, Protection and Movement, Oxygenation and Hemostasis, Coping and Stress Tolerance, Attributes and Roles, Care Competency, and Health Care Delivery. The clinical component of this course is designed to assist students in the application and interpretation of individual, health care and nursing concepts in adult patients experiencing common health alteration in the acute care setting. Prerequisites: Bridge to RN Practice I, Bridge to RN Practice II, officially accepted into the ADN program and following the required sequence of courses in the LPN to RN Bridge Track of ADN Program. Unencumbered LPN licensure.

**NURS-148** 5 (3-6)  
**Behavioral Health Concepts Bridge**

This course is designed to provide instructional, clinical, and lab learning experiences in the provision of evidence-based nursing care to individuals experiencing psychiatric mental health disorders. The lecture portion of this course will emphasize the concepts of mood and affect, stress and coping, advocacy, safety, therapeutic communication and managing care. The clinical and lab components of this course are designed to assist students in integrating critical thinking and decision-making throughout the nursing process to improve the care of patients experiencing psychiatric mental health disorders. Prerequisite: PSYC-201, officially accepted into the ADN program and following the required sequence of courses in the LPN to RN Bridge Track of the ADN program. Unencumbered LPN licensure.

**NURS-246** 5 (3-6)  
**Family Concepts Bridge**

This combined lecture/clinical course is designed to further develop the concepts within the three domains of the profile, process, and nursing. Emphasis is placed on concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. There is a focus on the family and significant others, identifying diverse cultural backgrounds, patterns of knowing and situational crises of family health. The clinical portion of this course will allow for application of concepts gained in lecture to meet the needs of the individual throughout childbearing, antepartum, labor and delivery, and postpartum periods. It will also provide the opportunity to apply concepts to the application of care of the neonate, child and adolescent. Both observational as well as hands on activities will be provided, additionally, community resources will be identified in various health care agencies. Upon completion, student should be able to provide safe nursing care to the family unit incorporating the concepts identified in this course. Prerequisite: Officially accepted into the ADN program and following the required sequence of courses in the LPN to RN Bridge Track of ADN program. Unencumbered LPN licensure.

**NURS-254** 5 (3-6)  
**Health Concepts II**

The didactic portion of this course is designed to build upon concepts presented in NURS 134. Emphasis is placed on the concepts of Homeostasis and Regulation, Protection and Movement, Oxygenation and Hemostasis, Coping and Stress Tolerance, Attributes and Roles, Care Competency, and Health Care Delivery. The lab/clinical/simulation component of this course is designed to assist students in the application and interpretation of individual, health care and nursing concepts in adult patients experiencing common health alterations in the acute care setting. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-256** 6 (4-6)  
**Family Nursing**

This combined lecture/lab/clinical course is designed to further develop the concepts within the three domains of the profile, process, and nursing. Emphasis is placed on concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. There is a focus on the family and significant others, identifying diverse cultural backgrounds, patterns of knowing and situational crises of family health. The clinical portion of this course will allow for application of concepts gained in lecture to meet the needs of the individual throughout childbearing, antepartum, labor and delivery, and postpartum periods. It will also provide the opportunity to apply concepts to the application of care of the neonate, child, and adolescent. Both observational as well as hands on activities will be provided, additionally, community resources will be identified in various health care agencies. Upon successful completion, students will be able to provide safe nursing care to the family unit incorporating the concepts identified in this course. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-258 8 (4-12)****Complex Health Concepts**

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health, wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. This combined theory and clinic course allows for theoretical application of concepts to clinical setting in providing safe, effective and competent care while demonstrating the knowledge, skills, and attitudes necessary to provide quality, individualized, entry-level nursing care to patient populations experiencing complex health issues. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses.

**NURS-260 1 (0-3)****Application to RN Practice**

This course provides students the opportunity to (a) synthesize previous knowledge and skills, (b) develop new knowledge and skills for the management of client care in a dynamically changing healthcare system and (c) reflect on their learning achievements throughout their nursing education. Students will realize the eight educational outcomes of the nursing program by participation in simulation, live seminars and development of a professional practice portfolio integrating the concepts of practice, process and professionalism. Emphasis will be placed on the NCLEX-RN blueprint of professional nursing concepts. Students will demonstrate competency in basic RN skills within the lab/simulation environment and incorporate this competency in providing safe, effective, evidence-based, quality nursing care to client's across the lifespan and the health and wellness continuum. Prerequisite: Officially accepted into the A.D.N. Program and following the required sequence of courses

**NURS-265 8 (6-10)****Complex Healthcare Concepts**

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. This combined theory and clinic course allows for theoretical application of concepts within the lab and clinical settings in providing safe, effective and competent care while demonstrating the knowledge, skills and attitudes necessary to provide quality, individualized, entry level nursing care to patient populations experiencing complex health issues. Prerequisite: Officially accepted into the ADN Program and following the required sequence of courses.

**NURS-267 1 (3-9)****RN Capstone**

This course provides students the opportunity to (a) synthesize previous knowledge and skills; (b) develop new knowledge and skills for the management of client care across the healthcare continuum in a dynamically changing healthcare environment; (c) reflect on their learning achievements throughout their nursing education; and (d) hone their mastery of nursing knowledge to adequately prepare for successful passage of the NCLEX-RN. Students will fully realize the eight educational outcomes of the nursing program by participation in simulation, lab and clinical activities; as well as, through attending live seminars and development of an individualized remediation plan to prepare for the NCLEX-RN, based upon HESI Exit and specialty exam performance. Emphasis will be placed on the NCLEX-RN blueprint of professionals nursing concepts and competencies. Students will demonstrate appropriate knowledge of established professional nursing standards, guidelines, and competencies within the lab, simulation and clinical environments and incorporate same in the delivery of safe, effective, evidence-based, quality nursing care to clients across the life-span and the healthcare continuum. Prerequisite: Officially accepted into the ADN Program and following the required sequences of courses.

**NURS-273 1 (1-5)****Nursing Assessment**

This nursing theory course emphasizes the application of Martha Rogers Science of Unitary Human Beings to develop cognitive, affective and psychomotor skills in the area of nursing assessment. The primary goal of this course is to assist students in developing and applying human patterning practice methods to create a comprehensive nursing care plan that reflects holistic care of adult clients in a variety of settings. Prerequisites: LPN Licensure; Nursing Dept permission.

## OIS-OFFICE INFORMATION SYSTEMS

**OIS-090 2 (0-2)****Beginning Keyboarding**

This course is designed to help students who have had no previous keyboarding training to develop proficiency in the use of the computer keyboard. Emphasis will be on the proper touch operation of the keyboard using appropriate technique. Students will progress at their own pace to reach a minimum keyboarding speed of 25 wpm. Grading will be on a Pass/No Pass/Fail (P/NP/F) basis. This course does not fulfill degree requirements.

**OIS-108 2 (2-1)****Document Processing**

This course includes the study of business letters, complex reports, tabulations, and business forms. Emphasis will be on proper business formatting and mailability of finished documents. Prerequisite: Proven keyboarding speed of at least 30 wpm or permission of instructor.

**OIS-117 2 (2-0)****Records Management**

This course covers the principles and practices of effective records management, retention, and disposal. Study will include alphabetic, numeric, and subject filing methods. An introduction to basic database concepts as needed for understanding automated records storage and retrieval methods will be included.

**OIS-150 4 (2-2)****Word Processing Applications**

This course will cover both the beginning and the intermediate features of using Microsoft Word for document processing. Students will go beyond basic editing and formatting to cover such applications as mail merge, tables, styles, outlines, and more. Completion of assignments will require additional lab time.

**OIS-170 3 (3-0)****Electronic Medical Office Records**

This course will introduce students to the electronic medical office record and the significant impact that it has on the work processes in the medical office setting. Students will develop an understanding of the electronic medical office record as a primary tool to support the work and workflow in the medical office. Typically offered in Fall semester.

**OIS-191 3 (3-0)****Business English & Proofreading**

The student will study and apply correct grammar, punctuation, and word choice to a variety of business documents. Emphasis will be placed on proofreading and editing of correspondence on the computer and the efficient use of a variety of reference materials.

**OIS-218 2 (1-2)****Machine Transcription**

This course develops language competencies and formatting knowledge required to produce malleable business documents from machine dictation. Prerequisite: OIS-150 and OIS-191.

**OIS-219 3 (3-0)****Healthcare Documentation**

This course develops the student's ability to document a variety of healthcare reports by transcribing physicians' dictation of medical progress reports, operative reports, letters, and other medical documents. The course incorporates the practice and application of healthcare documentation, spelling, grammar, punctuation, and capitalization according to AHDI standards. Prerequisites OIS 218, HLTH 118. Typically offered once per academic year in winter semester.

**OIS-220 3 (3-0)****Medical Insurance Billing**

Medical Insurance Billing is a foundations course designed to introduce students to concepts and procedures in the medical insurance billing process. The course develops medical office skills in processing governmental and commercial insurance claim forms. Student develop a basic foundation in diagnostic and procedural coding, as well as learning about legal and regulatory issues. Prerequisites: HLTH-118 and OIS-150. Co-requisite: HLTH-119. Normally offered in Fall only.

**OIS-230** 3 (3-0)

### **Medical Coding**

This course is designed to expand upon knowledge acquired by students in OIS 220. The course begins with diagnosis coding and builds on this foundation through additional instruction in current procedural terminology coding for evaluation and management, medicine, laboratory and pathology, as well as surgery coding for all body systems. The latest code sets, conventions, and guidelines are also introduced. This course is offered only once each academic year. Prerequisite: HLTH-119, and OIS-220.

**OIS-234** 4 (2-2)

### **Desktop Publishing & Design**

This course will emphasize design techniques in the preparation of professional looking brochures, flyers, newsletters, etc. Topics covered will include the use of fonts; clip art, scanned, and digital cameras images; color selection; and introductory web page authoring. Prerequisite: CIS-101 and OIS-150 or permission of instructor.

**OIS-250** 3 (3-0)

### **Advanced Word Processing Applications**

This course will expand upon the basic skills covered in the beginning course and will include the more powerful features of the word processing software. Topics to be covered may include graphics, tables, styles, templates, macros, forms, master documents, collaboration tools, and introductory desktop publishing. Prerequisite: OIS-150.

**OIS-260** 4 (2-2)

### **Office Technology & Procedures**

This capstone office training course is designed to integrate previously learned skills into activities simulating those found in an office environment. Students will prepare office documents, develop human relations skills, and practice time management and prioritizing. Heavy emphasis will be placed on group interaction and problem solving. Most of the class activities will require the use of the computer and other electronic technologies. As a final class assessment, all students will prepare an employment portfolio. Prerequisites: OIS-150 and OIS-191.

**OIS-270** 3 (3-0)

### **Health Information Management**

This course will introduce students to the elements of health information management, including healthcare delivery systems, health information management professions, healthcare settings, patient records, numbering and filing systems, record storage, indexes, registers, health data collection, legal aspects, and coding and reimbursement issues. Prerequisite: OIS 170, or permission of instructor. Normally offered in winter semester.

**OIS-271** 1 (1-0)

**OIS-272** 2 (2-0)

**OIS-273** 3 (3-0)

### **OIS Internship Education**

Students who have acquired the fundamental skill sets of their Office Information Systems education are given an opportunity to put their knowledge, skills, and abilities into practice through the OIS Internship Education course. The student may earn Office Information Systems elective credit by working in an office-related setting appropriate to their major course of study. Internship means work-for-credit only. Students must complete 40 hours per credit on the job. Prerequisite: Must be in final semester of program; cumulative GPA of 2.75 or higher. Must meet with advisor prior to registration. **Internships may require that the student pass a criminal background check.**

## **PHED-PHYSICAL EDUCATION**

**PHED-110** 1 (0-1.5)

### **Physical Fitness and Jogging**

A practical approach for students who desire to improve their fitness levels. Fitness and jogging tests will be used to improve the individual's efficiency and to maintain a higher level of physical fitness for a better way of life. Normally offered in Fall and Winter semesters.

**PHED-114** 1 (0-1.5)

### **Bowling**

A course for beginners through advanced bowlers. Students are taught techniques, terminology, scoring, practice, and competition in individual and team events. Students will bowl at local bowling alley. Normally offered in Fall and Winter semesters.

**PHED-116** 1 (0-1.5)

### **Hiking**

The importance of walking, hiking, and jogging is stressed. Actual participation in hiking trips. Students plan several hikes during the semester. Normally offered in the Fall and Summer semesters.

**PHED-122** 1 (0-3)

### **Varsity Cross Country**

This course focuses on the application of advanced skill techniques, teamwork, and participation at a competitive level. Enrollment must be concurrent with membership of the Bay College varsity cross country program. Varsity cross country may be repeated one time for an elective credit.

**PHED-123** 1 (0-3)

### **Varsity Basketball**

This course focuses on the application of offensive and defensive strategies, advanced skill techniques, teamwork, and participation at a competitive level. Enrollment must be concurrent with membership of the Bay College varsity basketball program. Varsity basketball may be repeated one time for an elective credit.

**PHED-141** 2 (2-0)

### **Physical Fitness: A Wellness Approach**

This course provides a practical approach toward better health, wellness, and an improved quality of life. Students will perform a wellness self-assessment, develop a personal wellness plan, and work on wellness activities outside of class. Class discussions and lecture will focus on life style changes. Some class time will be devoted to individualized wellness activity plans.

**PHED-144** 2 (2-0)

### **Effective Stress Management**

The student will develop an understanding of stress and its impact on the student's health and well-being. Various effective stress management techniques will be introduced, discussed, and practiced during course time. Students will develop personalized stress management plans.

**PHED-146 & 147 – see HLTH**

## **PHIL-PHILOSOPHY**

**PHIL-201** 3 (3-0)

### **Introduction to Western Philosophy**

A broad, general introduction to the principal periods of European and North American philosophic thought from pre-Platonic Greek to modern existentialist and including logic with readings from the philosopher's works. Meets Humanities requirement.

**PHIL-202** 3 (3-0)

### **Introduction to Eastern Philosophy**

This course will center its attention on the dominant philosophical schools and systems in Indian, Chinese, and Japanese philosophy. It will cover such areas as **a)** the Vedas, Upanishads, samkhy-yoga, Buddhism, and Vedanta in the Hindu systems, **b)** Confucianism, Taoism, and C'han Buddhism in the Chinese schools; and **c)** Zen Buddhism in Japanese philosophy. Meets Humanities requirement.

**PHIL-204** 3 (3-0)

### **Introduction to Ethics**

This course is a broad, general introduction to the traditional perspectives of ethics from foundational studies in the ancient world to current questions of the modern period. Selected areas of inquiry will include personal, biomedical, technological, business, political, social, international, professional, and religious ethics. Meets Humanities requirement. Prerequisites E and R.

**PHIL-230** 3 (3-0)

### **Introduction to World Religions**

This course examines the major religious traditions of the world and the variety of cultural forms that influence the expression of those historic faith-based experiences. Each religious tradition is studied and analyzed historically, thematically, and structurally for comparison as well as contrast. Selected areas of inquiry will include Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism, and various other religious movements. Meets Social & Behavioral Science and Humanities requirements. Prerequisite: E and R.

**PHIL-230H 3(3-0)**  
**Introduction to World Religions – Honors**

This course examines the major religious traditions of the world and the variety of cultural forms that influence the expression of those historic faith-based experiences. Each religious tradition is studied and analyzed historically, thematically, and structurally for comparison as well as contrast. Selected areas of inquiry will include Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism, and various other religious movements. Meets Social & Behavioral Science and Humanities requirements. This is an Honors course which requires additional work and academic rigor. Prerequisite: E and R, and acceptance into the Honors Program

**PHYS-PHYSICS**

**PHYS-103 4 (3-2)**  
**Conceptual Physical Science**

This is a survey course dealing with the basic concepts of physical systems. The intent is for the student to understand the science involved primarily on a conceptual level rather than a mathematically intensive one. This course is not designed for the science major but is intended to fulfill a portion of the lab science requirement for degree program. A four-function calculator is required for both lab work and homework. Prerequisite: M.

**PHYS-104 4 (4-0)**  
**Introduction to Astronomy (non-lab science)**

This course is a survey of the basic concepts of astronomy and astrophysics. It is meant to be a course that focuses on the exciting and interesting concepts of astronomy, rather than the mathematical side. The course is intended for various backgrounds, however, a basic understanding of algebra is required.

**PHYS-201 4 (3-2)**  
**Elements of Physics I**

This course is the first of a two-semester sequence dealing with principles of mechanics, heat, and sound. Prerequisite: MATH-111 with a "C" or better, or MATH-106 with a "C" or better. Normally offered in Fall semester. A calculator is required.

**PHYS-202 4 (3-2)**  
**Elements of Physics II**

A continuation of PHYS-201 including principles of electricity, magnetism, and light. Prerequisite: PHYS-201 with a "C" or better average. Normally offered in Winter semester. A calculator is required.

**PHYS-205 5 (4-2)**  
**Engineering Physics I**

This course is a calculus-based introduction to classical mechanics. Topics include: kinematics, dynamics, Newton's laws, work and energy, momentum, collisions, systems of particles, rotational dynamics, statics, oscillations and transverse waves. This course is intended for those seeking an engineering or science degree. Prerequisite: MATH-141 with "C" or better average. Normally offered in Winter semester.

**PHYS-206 5 (4-2)**  
**Engineering Physics II**

This course is a calculus-based introduction to electromagnetism. Topics include: Coulombs law, electric fields, Gauss's law, electric potential, capacitance, circuits, magnetic forces and fields, Ampere's law, induction, Maxwell's equations, electromagnetic waves, and geometrical optics. This course is intended for those seeking an engineering or science degree. Prerequisite: PHYS-205 with a "C" or better average. Normally offered in Fall semester.

**PHYS-260 3 (3-0)**  
**Statics**

A study of force systems including composition and resolution of forces, simple structure, principles of equilibria, centroids, and moments of inertia. Prerequisite: MATH- 141 with a "C" or better; and PHYS-205 with a "C" or better. Calculator is required. Normally offered in Fall semester.

**PHYS-261 3 (3-0)**  
**Dynamics**

A study of motion, including energy, impulse, momentum, and work. Prerequisites: PHYS-205 with a "C" or better grade. Normally offered in Winter.

**PMED-Paramedic**

**PMED-212 4 (4-0)**  
**Paramedic I**

This course provides information about the pre-hospital management of medical conditions at the advanced life support level. Emphasis is placed on pathophysiology, recognition of signs and symptoms, review of basic life support management techniques, anatomy and physiology, patient assessment, and strategies for advanced life support care. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 220, PMED 230, PMED 242, PMED 250.

**PMED-217 4 (4-0)**  
**Paramedic II**

This course incorporates previous knowledge gained in PMED 212 and gives the student instruction on prehospital emergencies including: assessment and management of trauma and medical patients, environmental conditions, principles of triage, management of mass casualty incidents, and telecommunications. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and a "C" or better in all program courses. Co-Requisite: PMED 225, PMED 235, PMED 247, PMED 255.

**PMED-220 2 (2-0)**  
**Paramedic Cardiology I**

This course provides the paramedic student with information about cardiovascular anatomy, physiology, pathophysiology, and electrophysiology. Emphasis is placed on rhythm interpretation, recognition of life threatening arrhythmias, electrical intervention and other pre-hospital patient management strategies. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite-PMED 212, PMED 230, PMED 242, PMED 250.

**PMED-225 2 (2-0)**  
**Paramedic Cardiology II**

This course builds on PMED 220 as a basis for more advanced arrhythmia interpretation. Management of cardiac arrest including, medications, cardioversion, transcutaneous pacing, and defibrillation will be a major emphasis. Pacemakers, 12- lead ECG interpretation, and other advanced procedures, and arrhythmias will be presented. Application of theory, judgement, and decision-making strategies are evaluated. Prerequisite- Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 217, PMED 235, PMED 245, PMED 255.

**PMED-230 2 (2-0)**  
**Paramedic Pharmacology I**

Provides the student with information necessary for the preparation, calculation of doses, and administration of drugs used in the pre-hospital setting, including classification, action, use, and side effects. Information about other commonly prescribed drugs is also provided. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite-PMED 212, PMED 220, PMED 242, PMED 250.

**PMED-235 2 (2-0)**  
**Paramedic Pharmacology II**

This course provides the paramedic student with additional in-depth information on Advanced Cardiac Life Support drugs including classification, action, use, and side effect. Information about other commonly used and prescribed drugs is also provided. Prerequisite- Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 217, PMED 225, PMED 247, PMED 255.

**PMED-242 3 (0-6)**  
**Paramedic Skills I**

This course provides paramedic skills required for advanced life support and provides the opportunity to apply theory to field practice in a discussion and skills lab setting. Skills will be demonstrated, practiced during supervised labs, and tested for competency. Students are also evaluated in the management of simulated emergencies. Prerequisites: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite(s): PMED 212, PMED 220, PMED 230, PMED 250.

**PMED-247 3 (0-6)**  
**Paramedic Skills II**

This course is a continuation of PMED 242 with the introduction of additional skills and continued application of theory. Measurement criteria for skills competencies becomes more stringent and students must become competent in all paramedic skills in preparation for the field internship component. Students are also evaluated in the management of simulated emergencies. Prerequisite(s): Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 217, PMED 225, PMED 235, PMED 255.

**PMED-250 3 (0-9)**

**Paramedic Clinical I**

This course provides clinical experience for paramedic students in areas including nursing home; hospital units such as the emergency department, critical care units, obstetrics, pediatrics, and psychiatric units; and designated EMS agencies under the supervision of licensed paramedics. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 212, PMED 220, PMED 230, PMED 242.

**PMED-255 3 (0-9)**

**Paramedic Clinical II**

This course continues from PMED 250 and provides clinical experience for paramedic students in areas including hospital units such as emergency departments, critical care units, obstetrics, pediatrics, surgery, and designated EMS agencies under the supervision of licensed paramedics. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 217, PMED 225, PMED 235, PMED 247.

**PMED-270 7 (0-7)**

**Paramedic Internship**

This course provides a 280 hour field internship component with an advanced life support agency. Students are assigned to a paramedic training officer to provide total patient care and other professional duties under direct supervision with continuous evaluation of the student's progress. Oversight is provided by the Faculty and Medical Director. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses. Co-requisite: PMED 280, PMED 285, PMED 282.

**PMED-280 1 (0-1)**

**Advanced Cardiac Life Support**

The Advanced Cardiac Life Support (ACLS) course is designed to provide instruction with a focus on highlighting the importance of team dynamics and communication, systems of care and immediate post-cardiac-arrest care. This course utilizes both didactic and simulation methodologies to provide coverage of cardiac emergencies and commonly encountered dysrhythmias in addition to airway management and management of patients with acute cerebral vascular pathology (stroke) and the initial care, management and related pharmacology in both the pre and in-hospital settings. This course provides teaching and evaluation in keeping with standards of care and current guidelines as set forth by the American Heart Association. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses, or permission of the Instructor. Co-requisite: PMED 270, PMED 285, PMED 282.

**PMED-285 1 (0-1)**

**International Trauma Life Support**

International Trauma Life Support course is designed specifically for trauma care providers who are the first to assess and initiate treatment for the trauma patient. This course combines basic and advanced training that utilizes both didactic and simulation methodologies. This course provides complete training for the skills needed for rapid assessment, resuscitation, stabilization and transport of trauma patients. This course provides teaching and evaluation in keeping with standards of care and current guidelines as set forth by the International Trauma Support organization. Prerequisites: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses or permission of the Instructor. Co-requisite: PMED 270, PMED 280, PMED 282

**PMED-282 1 (0-1)**

**Pediatric Advanced Life Support**

The Pediatric Advanced Life Support (PALS) course is designed to provide an opportunity for development of the necessary knowledge and skills needed to recognize and treat critically ill infants and children. A combination of didactic and simulation methodologies is utilized to emphasize a team approach in the emergency management of pediatric patients approaching or already in respiratory or cardiac arrest, from the early minutes through patient stabilization and/or the transport phases of pediatric emergency, in or out of the hospital. This course provides teaching and evaluation in keeping with standards of care and current guidelines as set forth by the American Heart Association. Prerequisite: Acceptance into Paramedic Associate in Applied Science following the course sequence and "C" or better in all program courses or permission of the Instructor. Co-requisite: PMED 270, PMED 280, PMED 285

**POLI-POLITICAL SCIENCE**

**POLI-110 3 (3-0)**

**Comparative Government & Politics**

An introduction to the field of political science with emphasis on how American political theories and governmental institutions compare with those of other nations. Meets the Social & Behavioral Science requirement.

**POLI-111 3 (3-0)**

**American Government**

A study of the basic structure and processes of American national government. Meets the Social & Behavioral Science requirement.

**POLI-111H 3 (3-0)**

**American Government-Honors**

A study of the basic structure and processes of American national government. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science requirement. Prerequisite: Acceptance into the Honors Program.

**POLI-201 3 (3-0)**

**International Relations**

A study of the problems and complexities of relations between nation-states. Emphasis will be given to the formation and execution of American foreign and defense policies. Meets the Social & Behavioral Science requirement.

**POLI-201H 3 (3-0)**

**International Relations-Honors**

A study of the problems and complexities of relations between nation-states. Emphasis will be given to the formation and execution of American foreign and defense policies. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science requirement. Prerequisite: Acceptance into the Honors Program.

**POLI-262 3 (3-0)**

**State & Local Government**

A study of the politics and administration of American sub-national governments. Special attention will be given to the State of Michigan and Delta County. Meets the Social & Behavioral Science requirement.

**POLI-262H 3 (3-0)**

**State & Local Government-Honors**

A study of the politics and administration of American sub-national governments. Special attention will be given to the State of Michigan and Delta County. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science requirement. Prerequisite: Acceptance into the Honors Program.

**POLI-272 1-4 (4-0)**

**Government/Law Internship**

Students who have completed one government course may apply to take the internship and earn credit hours by working in an approved agency. Evaluation of the student's performance will be carried out by the student's supervisors in the participating agency in conjunction with the coordinator of the program. Note: No student may take over four hours of credit of this course while attending the college. Prerequisite: Student must have compiled 24 semester hours or more with a grade point average (GPA) of 2.0. Internships may require that the student pass a criminal background check.

**PSYC-PSYCHOLOGY**

**PSYC-201 3 (3-0)**

**Introduction to Psychology**

This course introduces the student to the major ideas, concepts, methods, and principles in contemporary psychology with a special focus on psychology as a science. As a science that examines behavior and mental processes, psychology includes topics such as research methods, neurological bases of behavior, sensing and perceiving the physical world, states of consciousness, learning, emotion and its display, relationships between stress and health, higher cognitive processes such as memory and motivation, development, differing views of personality and its assessment, abnormal behavior and its treatment, social thinking, social influence, and social relations. Meets the Social & Behavioral Science requirement. Prerequisite: R.

**PSYC-206 3 (3-0)****Social Psychology**

This course is an introduction to the theory and research of how individuals think about, influence, and relate to one another. The major themes and topics include social thinking (e.g., self, attribution, belief, attitude, intuition) social influence (e.g., obedience, persuasion, propaganda, conformity, group effects) and social relations (e.g., prejudice, aggression, violence, attraction, altruism, media influence). In addition, these concepts are applied to areas such as health care, law, work, education, politics, and pop culture. Meets the Social & Behavioral Science requirement. Prerequisite: R, and PSYC-201 or permission of instructor. Offered in winter semester.

**PSYC-220 3 (3-0)****Developmental Psychology**

This course is an introduction to the study of the physical, cognitive, and psychosocial development of the individual during the life-span. A special emphasis is placed on the changes associated with childhood and adolescence. This course is based upon the views that development is due to interactions between nature and nurture, development is contextual in terms of recognizing culture and other environmental conditions, and that each person's development is similar and yet unique to the development of others. Meets the Social & Behavioral Science requirement. Prerequisite: PSYC-201 or permission of instructor. Offered in the Fall semester.

**PSYC-280 3 (3-0)****Abnormal Psychology**

This course is designed to acquaint the student with the changing concepts of maladaptive behavior. Included are possible etiologies, classifications, descriptions, and the various therapeutic modalities available. This course is a supportive course designed to meet occupational program requirements. Meets the Social & Behavioral Science requirement. Prerequisite: R and PSYC-201 or permission of instructor. Offered in Fall semester only.

**SOCY-SOCIOLOGY****SOCY-103 3 (3-0)****Cultural Diversity**

This is a social science elective which will encourage a better understanding of the dimensions of the human experience and the commonalities that knit all people together. This course will explore the beliefs that distinguish cultures and societies from one another. Understanding the dimensions stimulates dialogue about solutions to many complex social problems. We hope to prepare students to live in a diverse world and pluralistic community, and to prepare them for citizenship in both the local and global community. Meets the Social & Behavioral Science requirement.

**SOCY-151 3 (3-0)****Sociology**

This course teaches the sociological perspective which stresses understanding the connections between the individual and society. Students will study human behavior within the context of social structure, groups, and one's environment. Special emphasis is placed on sociological theory, culture, socialization, social institutions, deviance, social stratification, race/ethnicity, sex and gender, and marriage and the family. Meets the Social & Behavioral Science requirement.

**SOCY-205 3 (3-0)****Juvenile Delinquency and Justice**

This course uses a sociological perspective to explain the causes and correlations of juvenile delinquency and crime. A history of the juvenile justice system and its current function will also be addressed. Students will explore the various theories, demographics, programs, and agencies that work with juvenile offenders. The effects of juvenile delinquency on the individual, the family, community, and society will also be explored. Meets the Social & Behavioral Science requirement. Prerequisites: R and SOCY-151; or Instructor Permission.

**SOCY-206 3 (3-0)****Sociology of Death and Dying**

This course uses the sociological perspective to explore the group and individual response to death, dying, and bereavement within society. Students will examine the consequences and effects of death at the cultural, religious, family, and community levels and will learn the social process experienced during the dying process. Topics will include: America's Death System, War and Terrorism, Suicide, Euthanasia, Aging and the Elderly, Sociology of the (Dying) Body, Economies of Death, and the process of Bereavement and Grief. Prerequisites: R

**SOCY-207 3 (3-0)****Social Problems**

In this course, students will study the extent, causes, and possible solutions to social problems in the United States. The course is divided into four sections that address explaining social problems, inequality, deviance, and institutional/global issues. Throughout the course students will be required to apply sociological theory and will be required to complete a research paper on a social problem of their choosing. Meets the Social & Behavioral Science requirement.

**SOCY-208 3 (3-0)****Sociology of Marriage & the Family**

This course uses the sociological perspective to analyze marriage and family life in contemporary America. Students will learn to see the societal influence found in marriage and family by reading, writing, and studying about gender roles and sexuality, historical and economic patterns affecting the family, singlehood, parenting, divorce and remarriage, and culture/ethnic differences. Meets the Social & Behavioral Science requirement.

**SPAN-SPANISH****SPAN-101 3 (3-0)****Spanish I**

Spanish I is an introduction to the Spanish language and cultures of the people who speak it. The course is designed for beginning students with no previous experience in Spanish who wish to develop effective communication skills in Spanish. It is designed to acquaint students with the four basic language skills (listening, speaking, reading, and writing) which will carry over into their area of interest, i.e. travel, business, medicine, education, social work, etc. The course will also focus on cultural beliefs, values, and aspects of everyday life in Spanish-speaking countries and communities. Meets the Humanities requirement.

**SPAN-102 3 (3-0)****Spanish II**

Spanish II is the second course of a two-semester sequence in elementary Spanish. More complex structures are introduced while developing a foundation in the essentials of the language. The course emphasizes practice in listening comprehension, speaking, reading, and writing. The course will also provide useful information about the Spanish-speaking world. Meets the Humanities requirement. Prerequisite: Spanish 101 with a C or better or permission of instructor (successful mastery of Spanish I at the high school level as demonstrated by a proficient score on the Bay College Spanish I proficiency test administered to the student by the Spanish instructor).

**SPAN-112 3 (3-0)****Spanish for Criminal Justice Majors I**

This course introduces students to Spanish language words, phrases, expressions, jargon, and cultural issues that are important for law enforcement and corrections personnel to know and understand. The students will gain insights into relationships between Spanish speaking countries and the United States which will enhance the student's appreciation of the global community and his/her role in it as a criminal justice professional. The course emphasizes the practical application of the Spanish language in the day-to-day operations of law enforcement and corrections, with specific emphasis on traffic, investigation, arrest, tactical operations, booking procedures, correctional policies and commands and telecommunications. Prerequisite: CJUS-112.

**SPAN-220 3 (3-0)****Spanish III**

Spanish III is intermediate Spanish. More complex structures are introduced with increased emphasis on conversation and comprehension. The course emphasizes practice in listening comprehension, speaking, reading, and writing. The course will also provide useful information about the Spanish-speaking world. Meets the Humanities requirement. Prerequisite: Spanish 102 with a C or better or permission of instructor (successful mastery of Spanish II at the high school level as demonstrated by a proficient score on the Bay College Spanish II proficiency test administered to the student by the Spanish instructor).

**TECH-TECHNOLOGY****TECH-100 4 (2-4)****Basic Machine Tool Operation**

This lecture/laboratory course emphasizes machine shop procedures and safety practices. Introduction to the basic operation of the engine lathe, milling machine, surface grinder, and drill press will be covered. The use and care of precision measuring tools will be undertaken. Coordinate measuring machine will be introduced.

**TECH-101 2 (1-2)****Blueprint Reading**

A study of mechanical part representation, technical nomenclature, standard symbology, and accepted practices for machine and welding drawings. Emphasis is placed on correct drawing interpretation. Technical sketches, lay-out templates, and patterns are created for shop use.

**TECH-105 4 (4-0)****Materials of Industry**

The objective of this course is to provide a generalized system of classification of materials and their industrial uses. This course is a supportive course designed to meet occupational program requirements. Scientific calculator is required

## TS-TRANSITIONAL STUDIES

**\*\*These courses cannot be used to fulfill requirements for Certificates or Degrees.\*\***

**BIOL-090 3 (3-0)****Fundamentals of Biology**

Developmental in nature, this course is designed to familiarize those students who have weak backgrounds in high school science with the world of science in general and human biology in particular. Being developmental, this course does not fulfill requirements toward any degree. Normally offered once a year.

**CHEM-090 4 (4-0)****Fundamentals of Chemistry**

Developmental in nature, this course is designed to familiarize those students who have a weak background in high school chemistry. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree. Prerequisite: MATH-090 or MATH-115 with a "C" grade or better, or an appropriate score on the mathematics placement exam. An appropriate science calculator is required. Normally offered Fall semester

**CIS-090 1(1-0.5)****Basic Computer Literacy**

This transitional course is designed as a foundation for those with little or no computer experience. Students will develop basic skill sets in computer operations, the Windows operating system, the Internet including Web and email, and word processing. Students will develop basic computer skills for both personal and academic needs, as well as prepare for higher level courses. Grading will be on a Pass/Fail (P/F) basis. This course does not fulfill degree requirements.

**ENGL-070 3 (3-0)****Basic Reading Skills**

Students will increase their vocabulary by learning new words and concentrating on context clues. This course also focuses on improving comprehension skills by identifying topics, main ideas, supporting details, and the patterns of organization often used by authors. Students also practice making inferences. Those who successfully complete this course will further develop their reading by enrolling in ENGL-075. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree. A grade of "C" or better is required to successfully complete this course.

**ENGL-070W 2 (2-0)****Basic Reading Skills Workshop**

This workshop is designed to help students increase their vocabulary, comprehension, and inference making in order to succeed in ENGL-077 College Reading Skills. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-077 College Reading Skills. This course is not designed to count toward any degree and is not transferable. A grade of C or better is required to successfully complete this course. Prerequisite: COMPASS Reading score of 0-39. Co-requisite: Students enrolled in the workshop must be concurrently enrolled in a designated section of ENGL-077 College Reading Skills.

**ENGL-077 4 (4-0)****College Reading Skills**

In addition to improving word recognition, comprehension, and critical thinking skills, students will learn to use active reading strategies to develop as proficient and confident readers. Students are exposed to a variety of text, including novels. ENGL-077 prepares students for the reading required of them at the college level. This course is not designed to count toward any degree and is not transferable. A grade of "C" or better is required to successfully complete this course. Prerequisites: ENGL-070 with a "C" or better or COMPASS reading score of 40-77.

**ENGL-095 4 (4-0)****Basic Writing Skills**

This course is designed to help students develop the sentence-and paragraph-level skills necessary to succeed in ENGL-097 College Writing Skills. Students will work on sentence construction, punctuation, vocabulary, and other mechanics of writing. The course will focus on improving writing skills through practice in writing sentences, paragraphs, and short responses to assigned readings. The computing center will be utilized throughout the course. Students taking this course will be expected to continue developing their writing skills by enrolling in ENGL-097. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree.

**ENGL-095W 2 (2-0)****Basic Writing Skills Workshop**

This workshop is designed to help students develop the sentence and paragraph level skills necessary to succeed in ENGL-097 College Writing Skills. Students will work on sentence, paragraph, and essay construction; punctuation; and other mechanics of writing. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-097. The computer lab will be utilized as part of the workshop. This course does not fulfill degree requirements and does not transfer. Prerequisite: COMPASS Writing score of 0-29. Co-requisite: Students enrolled in the workshop must be concurrently enrolled in a designated section of ENGL-097 College Writing Skills.

**ENGL-097 4 (4-0)****College Writing Skills**

This course is designed to help students develop the writing skills necessary to succeed in ENGL-101 Rhetoric and Composition. Students will learn to write unified paragraphs and essays that are supported by concrete details and organized logically. Practice in sentence construction, punctuation, grammar, and vocabulary is also emphasized. Students will read and respond to short essays. The computing center will be utilized throughout the course. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree. Prerequisite: ENGL-095 with a "C" or better or appropriate score on ACT or Compass placement test College Writing.

**ENGL-097W 2 (2-0)****College Writing Skills Workshop**

This workshop is designed to help students develop the paragraph and essay skills necessary to succeed in ENGL-101 Rhetoric and Composition. Students will work on paragraph and essay construction, grammar, and punctuation. Students enrolled in the workshop will receive further application opportunities on concepts covered in ENGL-101. The computer lab will be utilized as part of the workshop. This course does not fulfill degree requirements and does not transfer. Prerequisite: R and COMPASS Writing score of 30-68. Co-requisite: Students enrolled in the workshop must be concurrently enrolled in a designated section of ENGL-101 Rhetoric and Composition.

**ENGL-098 4 (4-0)****Integrated College Reading & Writing Skills**

This course is designed to help students develop the reading and writing skills necessary to succeed in ENGL-101 Rhetoric & Composition. Students will learn strategies to improve their reading comprehension, word recognition, critical thinking, and active reading skills to become more proficient readers. Students will also learn to write unified paragraphs and essays that are supported by concrete details and organized logically. Practice in sentence construction, punctuation, grammar, and vocabulary is also emphasized. The computer center will be utilized throughout the course. Prerequisites: COMPASS Writing score of 30-68 and COMPASS Reading score of 40-77. This course does not fulfill degree requirements and does not transfer. Completion of this course satisfies E and R prerequisites.

**MATH-085 4(4-0)****Pre-Algebra**

This course is designed to strengthen the arithmetic skills of the students. Topics covered include: operation of whole numbers, fractions, percents, decimals, ratios, integers, exponents, operations with signed numbers, an introduction to geometry, and an introduction to algebra. Information on math test taking strategies and study skills will be presented and practiced along with the principles of On Course. This course is developmental in nature and cannot be used toward any associate degree. No calculators are permitted. Normally offered each semester.

**MATH-095 4 (4-0)****Basic Algebra**

A study of the fundamental concepts and operations of algebra, polynomials, equations, application problems, factoring, introduction to functions and graphs, systems of linear equations, exponents, and simple quadratic equations. This course is developmental in nature and cannot be used toward any associate degree. Prerequisite: MATH-085 with "C" grade or better or an appropriate score on the mathematics placement test. No calculators are permitted. Normally offered each semester.

**MATH-097 4 (4-0)****Mathematical Literacy**

MATH-097 is designed for students in majors that do not require Intermediate or College Algebra. It can serve as a pre-requisite to MATH-107 Liberal Arts Math (which meets the MTA math requirement) or BUSN-177 Business Math. The course integrates numeracy, algebraic reasoning, data literacy, functions, equations, and modeling along with college success content. It is a Transitional Studies course and does not meet the MTA math requirement. A scientific calculator is required. Prerequisite: MATH-085 Pre-Algebra with a "C" or better OR appropriate score on a math placement test.

**MATH-098 3 (3-0)****Modularized Pre & Basic Algebra**

This course is designed for a student who is comfortable with the basic arithmetic operations without a calculator to quickly review arithmetical concepts, and provide the student with a solid algebraic foundation which is required in college level math courses. Topics covered include: operation of whole numbers, fractions, percentages, decimals, ratios, integers, exponents, operations with signed numbers, an introduction to geometry, algebra, polynomials, equations, and stated problems, factoring, introduction to functions and graphs, systems of linear equations, exponents, and quadratic equations. Information on math test taking strategies and study skills will be presented and practiced along with the principles of On Course. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree.

**OIS-090 2 (0-2)****Beginning Keyboarding**

This course is designed to help students who have had no previous keyboarding training to develop proficiency in the use of the computer keyboard. Emphasis will be on the proper touch operation of the keyboard using appropriate technique. Students will progress at their own pace to reach a minimum keyboarding speed of 25 wpm. Grading will be on a Pass/Fail (P/F) basis. This course is developmental in nature and cannot be used to fulfill requirements for any certificate or degree.

**WATR-WATER RESOURCE MANAGEMENT****WATR-110 4 (4-0)****Wastewater Operations & Management**

The primary goal of this course is to present the student with basic knowledge of the design and operation of wastewater treatment plants. Topics covered will include activated sludge process, trickling filters, lagoons, and solids handling. Laboratory procedures and practices are also discussed. Recommended: MATH-095 or higher. Normally offered in Fall and Winter semesters.

**WATR-120 4 (4-0)****Water Operations & Management**

A continuation of WATR-110, the theory and applications of potable water treatment processing are stressed. Recommended: WATR-110. Offered in Winter semester.

**WATR-150 2 (2-1)****Team Project Course**

With increasing emphasis on personnel initiative in the workplace, it is essential that one knows how to recognize, define, and analyze problems and develop workable solutions to correct them. This course provides those skills. At the beginning of the semester, the entire team will decide on the type of water or wastewater project. The students will be responsible for the development of a budget, public relations, project plans and time schedules, drawings, calculations, and presentations, and physically work together to "build" and "conduct" the project.

**WATR-151 2 (1-2)****Team Project Course II**

The Team Project Course II will be a continuation of Team Project Course I. This course will focus on bringing to completion the project that was thoroughly planned out in the first section. As with the Team Project I course, students will be responsible for the operation of a budget, public relations, time schedules, plans, presentations, and finalization of the project. The student teams will be required to finish the project and present the project to the Water Advisory Board before grades are submitted. This course will also incorporate State exam and co-op preparation. Prerequisite: WATR-150.

**WATR-220 3 (3-0)****Industrial Solutions**

To familiarize the student with the operation and control of specific industrial waste treatment technologies which discharge to surface waters, land, or for recycle, as well as those with Industrial Pretreatment Permits. Both biodegradable and toxic wastes will be considered; physical/ chemical treatment, neutralization, solids disposal, product reclamation, and safety issues will be covered. Industrial process water treatment and groundwater remediation will be taken separately. Attention will be focused on specific treatment processes; mathematical calculations for design and process evaluation and control will be included. Offered in Winter semester.

**WATR-230 3 (2-2)****Aquatic Evaluations & Bacteriology**

This course presents bacteriologic testing and metabolic processes in water and wastewater. Stress will be placed on the microscopic examination and on bacteriological testing of organisms in water supplies and biological waste treatment facilities. Recommended: CHEM-090 or higher. Offered in Winter semester.

**WATR-240 5 (2-5)****Environmental Analysis**

A systematic study of the theory and laboratory techniques needed to perform all analysis required to determine the suitability of sources of water for use and those analysis required to regulate the purification processes. Nutrient and solids removal will be stressed. Instrumental analysis will be studied extensively. Recommended: CHEM- 110 & 112, MATH-106 or equivalent. Normally offered in Fall semester.

**WATR-250 5 (2-5)****Water Analysis & Techniques**

A continuation of WATR-240, stressing analysis for potable water treatment. Recommended: CHEM-110, CHEM-112 or CHEM-108, MATH-106 and WATR-240. Offered in Winter semester.

**WATR-255 3 (2-2)****Mechanical & Instrumentation**

This course is designed to provide the student with basic mechanical knowledge and skills needed for maintenance of treatment plants. Includes maintenance of pumps, valves, meters, chlorination equipment, interpretation of shop drawings and blueprints, and an introduction to basic electricity. Offered in Winter semester.

**WATR-260 3 (3-0)****Current Issues for Managers**

The primary objective of this course is to assist the student to understand the relationship of the water utility with other municipal departments, with State and Federal regulatory agencies, and with the public. Emphasis is placed on the organizational structure, management programs, and the duties of supervisory personnel. Normally offered in Winter semester.

**WATR-270 4 (4-0)****Water in Motion**

This course presents the basic principles of hydraulics. Specific applications to water distribution, sewage collection, treatment plant systems, metering, and pumping are stressed. Recommended: MATH-106 or higher. Normally offered in Fall semester.

**WATR-272 4 (0-4)****Professional Field Experience (Water)**

This cooperative work experience is designed to provide the student with on-the-job learning opportunities within the area of water utilities. Prerequisites: WATR-120, WATR-230, WATR-250, WATR-255, and Permission of Instructor. **Internships and Co-ops may require that the student pass a criminal background check.**

**WATR-273** 4 (0-4)  
**Professional Field Experience  
(Wastewater)**

This cooperative work experience is designed to provide the student with on-the-job learning opportunities within the area of wastewater utilities. Prerequisites: WATR-110, WATR-230, WATR-240, WATR-255, and Permission of Instructor. Internships and Co-ops may require that the student pass a criminal background check.

**WATR-274** 3 (0-3)  
**Environmental Internship**

This internship is designed to provide the student with on-the-job learning opportunities within the area of environmental management. Prerequisite: Permission of Instructor. Internships and Co-ops may require that the student pass a criminal background check.

## **WELD-WELDING**

**WELD-110** 3 (1-3)  
**Introduction to Oxygen-Fuel  
Welding & Cutting**

This lecture/laboratory course presents the underlying principles used in application of oxygen fuel, torch cutting, or brazing. Students also receive basic instruction in oxygen-acetylene welding of cast iron.

**WELD-120** 4 (2-4)  
**Arc Welding**

This course is designed for students wishing a basic understanding of electric arc welding theory and applications. Emphasis is placed on manual techniques of shielded metal arc welding and oxy fuel cutting.

**WELD-210** 4 (1-5)  
**Advanced Arc Welding**

Major emphasis...Included in this course are air carbon arc cutting, plasma arc cutting, use of the CNC burning table, and automatic torch cutting. At the end of this course students will take a welding test in an attempt to become certified welders, according to the AWS D1.1 Structural Steel Welding code. Prerequisite: WELD-120.

**WELD-220** 4 (1-5)  
**Gas Metal Arc Welding (MIG)**

This course is designed to give the student the basic theory and application of semi-automatic wire-feed welding. Emphasis is placed on Short Arc, Flux Cored Arc, Spray Arc, and Self-Shielded Arc processes.

**WELD-240** 4 (2-4)  
**Basic Pipe Welding**

This skill course is designed specifically for those students wishing to challenge the American Welding Society Certification test on structural and/or pipe welding. Prerequisite: WELD-210 or permission of instructor.

**WELD-260** 4 (3-3)  
**Gas Tungsten Arc Welding (TIG)**

The student will learn to produce welds safely with high frequency, gas tungsten arc welding equipment. Welding safety, gas tungsten arc welding fundamentals, equipment adjustments, current changes, polarity changes, and shielding gases will be stressed. Emphasis will be placed on the steel, aluminum, and stainless steel welding process. Prerequisite: None; however previous welding experience recommended.

**WELD-280** 4 (2-4)  
**Advanced Pipe Welding**

The student will learn to produce welds on pipe and tubing to comply with the A.S.M.E., Section IX, of the Boiler and Pressure Vessel Code. Welding safety, polarity changes, current adjustments, and shielding gases will be stressed. Emphasis will be on root and fill pass welding using gas tungsten arc and shielded metal arc welding processes. Prerequisite: WELD-240 or equivalent.

## **WGST-WOMEN'S AND GENDER STUDIES**

**WGST-200** 3(3-0)  
**Introduction to Women's and  
Gender Studies**

This class introduces students to the interdisciplinary study of women's issues and gender identity in the human experience. Utilizing feminist theoretical analysis, the course will provide a general survey of the role and treatment of women in several interrelated disciplines such as psychology, sociology, history, political science, economics, and literature. The course will include discussion of women's issues dealing with the social construction of gender and the intersections of gender with race, ethnicity, and class. The course enables students to critically examine their own social experiences and identify the power relationships and gender roles that shape the lives of women and men. Meets the Social & Behavioral Science and Humanities requirements. Prerequisites: E and R.

**WGST-200H** 3(3-0)  
**Introduction to Women's and  
Gender Studies-Honors**

This class introduces students to the interdisciplinary study of women's issues and gender identity in the human experience. Utilizing feminist theoretical analysis, the course will provide a general survey of the role and treatment of women in several interrelated disciplines such as psychology, sociology, history, political science, economics, and literature. The course will include discussion of women's issues dealing with the social construction of gender and the intersections of gender with race, ethnicity, and class. The course enables students to critically examine their own social experiences and identify the power relationships and gender roles that shape the lives of women and men. This is an Honors course which requires additional work and academic rigor. Meets the Social & Behavioral Science and Humanities requirements. Prerequisites: E and R, and acceptance into the Honors Program.

# College Personnel

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## **ADMINISTRATION, FACULTY AND STAFF**

- Anderson, Amy** ..... EMT/Paramedic Instructor  
AAS, Bay de Noc Community College
- Anderson, Ashley** ..... Simulation/Lab Technician
- Barker, Janice** ..... Office Information Systems Instructor  
AA, Bay de Noc Community College; BS, Northern Michigan University; MS, Ferris State University
- Barron, Matthew** ..... Executive Dean of Arts, Sciences, and Academic Support  
BS, PhD, Michigan Technological University
- Barteld, Tammra** ..... Early Childhood Instructor  
BS, Northern Michigan University; MA, Walden University
- Bazan, Patrick** ..... West Campus Building Maintenance Manager
- Beaudoin, David** ..... Shipping/Receiving Operations Clerk  
AA, AAS, Bay de Noc Community College
- Beeckman, Hillary** ..... Chemistry Instructor  
AS, Delta College; BS, Alma College; MA, Central Michigan University
- Belcher, Beth Ann** ..... Grant Project Manager  
AAS, Bay de Noc Community College; BS, Lake Superior State University
- Bennett, Daniel** ..... Custodian/Maintenance Fill-In  
AAS, Bay de Noc Community College
- Berube, Beth** ..... Human Resources Specialist  
AAS, Bay de Noc Community College; BS, Central Michigan University
- Bissell, Ann** ..... Assistant Librarian  
BA, College of St. Catherine
- Black, Brian** ..... Biology Instructor  
Vocational Diploma, Fox Valley Technical College; BS, University of Wisconsin; BS, University of Maine;  
PhD, Michigan State University
- Blume, Travis** ..... Executive Dean of Student Services  
AS, BS, Indiana University - Purdue Fort Wayne; MS, Indiana Institute of Technology
- Blumensaadt, Josh** ..... Coordinator of Campus User Technology  
AA, Bay de Noc Community College
- Brown, Theresa** ..... TRIO Administrative Assistant  
AA, Bay de Noc Community College; BS, Lake Superior State University
- Campbell, Molly** ..... Political Science Instructor  
BA, Campbell University; Graduate Certificate, Western Kentucky University; MA, Colorado State University
- Capodilupo, Caitlin** ..... Nursing Instructor  
BSN, Mercy College of Detroit; MSN, Northern Michigan University
- Carlson, Kevin** ..... Vice President of Finance and Bay College West  
BA, Michigan State University; MBA, Marylhurst University

**Carne, Kim** ..... Vice President of Advancement  
BS, Western Michigan University; MBA, University of Dayton

**Charon, Heidi** ..... Retention Program Manager  
AA, Bay de Noc Community College; BA, University of Illinois at Springfield

**Claverie, Monique** ..... Bay College West Tutor Coordinator  
BS, University of Maine

**Coleman, Laura** ..... President  
BS, University of Illinois; MBA, Lake Forest GSM; PhD, University of Missouri

**Collegnon, Jane** ..... Administrative Assistant to the Dean of Allied Health  
AAS, Bay de Noc Community College

**Croasdell, Sandra** ..... Nursing Instructor  
BA, Cleary University; BSN, Wayne State University; MSN, Post Master Certificate, Doctor of Nursing Practice, Oakland University

**Curry, Ralph** ..... Director of Buildings and Grounds  
Electronics Certificate, Bay de Noc Community College; Automotive Certificate, Northern Michigan University

**Curtin, Shawn** ..... Digital Technology Coordinator  
BFA, Northern Michigan University

**Cutler, Greg** ..... Psychology/Education Instructor  
BA, MA, University of Northern Iowa; EdSp, Northern Michigan University

**DeGrand, Vicki** ..... Advancement Specialist  
AA, Bay de Noc Community College; BS, Lake Superior State University

**DeLong, Oscar** ..... Director of Library  
BA, Alma College; MLS, Indiana University

**DeRocher, Robert** ..... Custodian  
AA, Bay de Noc Community College

**Dittrich, Mary** ..... Administrative Assistant to the Dean of Business & Technology  
AAS, Bay de Noc Community College

**Dollhopf, Julie** ..... Records/Registration Assistant  
AAS, Wisconsin Indianhead Technical College

**Drake, Rae** ..... Women's Basketball Coach  
BS, Northern Michigan University

**Dubord, Todd** ..... Maintenance Technician

**Dufek, Denise** ..... Instructor/Student Success Coach  
AA, Henry Ford Community College; BS, Eastern Michigan University; MA, Sienna Heights College

**Erickson, Edith** ..... Instructional Designer  
BA, Baker College; MA, Michigan State University

**Farnsworth, Jennifer** ..... Nursing Instructor  
AA, Bay de Noc Community College; BS, Northern Michigan University; MSN (NNP), Wayne State University

**Fries, Christopher** ..... Special Populations Manager  
BS, MS, Northern Michigan University

**Gardner, Michael** ..... Welding Instructor  
AA, Bay de Noc Community College; BS, Ferris State University

**Germain, Ruth** ..... Assistant Director of Financial Aid  
AA, AAS, Bay de Noc Community College; BS, Lake Superior State University

**Granger, Kristine** ..... Visual Arts Instructor/Coordinator  
Certificate from Paris Fashion Institute; AS, Plaza Three Academy; BFA, University of Oregon; MA, Stony Brook University

**Grider, James** ..... Bay College West Supplemental Instruction Coordinator  
AA, Bay de Noc Community College

**Grzybowski, Michael** ..... Fill-In Custodian

**Hansen, Rick** ..... Custodian/Maintenance, Bay College West  
AAS, Gogebic Community College

**Hansen, Stella** ..... Social and Behavioral Sciences Instructor-Bay College West  
BS, MA, PhD, Michigan State University

**Heath, Jason** ..... Fill-In Custodian

**Helmer II, James** ..... TRiO Math Center Specialist  
AAS, Bay de Noc Community College; BS, Michigan Technological University

**Highum, Mark** ..... CNSS Instructor  
AS, Excelsior College; BS, Southern Illinois University; MS, Ferris State University

**Highum, Renae** ..... Admissions/Enrollment Facilitator  
AAS, Bay de Noc Community College

**Hinds-Springstroh, Diedra** ..... Nursing Instructor  
ADN, Bay de Noc Community College; MSN, Walden University

**Hinzman, Ken** ..... Developmental Math Instructor  
AS, Schoolcraft College; BAS, University of Michigan; MA, Wayne State University;

**Izzard, Justin** ..... Director of IT  
BS, Capella University

**Jackson, Jessica** ..... Library Administrative Assistant  
AA, Bay de Noc Community College; BS, Lake Superior State University;

**Jensen, Tina** ..... Student Services Enrollment Facilitator Bay College West  
AAS, Bay de Noc Community College

**Johnson, Laura** ..... Executive Administrative Assistant to the President  
AA, Bay de Noc Community College; BS, Lake Superior State University

**Johnson, Matthew** ..... Athletic Director/Men's Basketball Coach  
BS, Northern Michigan University

**Johnson, Stephen** ..... General Maintenance Technician  
Certificate, Bay de Noc Community College

**Jones, Gaylord** ..... Fill-In Custodian

**Jorasz, Brooke** ..... Financial Aid Specialist  
AA, Bay de Noc Community College

**Kennedy, Bridget** ..... Director of Human Resources  
BS, University of Wisconsin – Stevens Point

**King, Joyce** ..... Computer Applications Instructor  
BS, Northern Michigan University; MS, Ferris State University

**Kinney, Mark** ..... Executive Dean of Business, Technology & Workforce Development  
BS, MBA, Baker College

**Kinonen, Amber** ..... Reading Instructor  
BS, MS, Northern Michigan University

**Kippola, Aaron** ..... Theater & Technical Services Coordinator  
BA, Michigan State University; MA, Western Illinois University

**Klees, June** ..... History Instructor  
BS, MA, East Stroudsburg University; PhD, Kent State University; PDC, University of Wisconsin

**Konkel, David** ..... Welding Instructor  
BMAW, SMAW Certificate, Bay de Noc Community College; AAS, BS, Ferris State University

**Krynicky, Matthew** ..... Physics Instructor  
BS, Wayne State University; PhD, University of Alaska Fairbanks

**Kulack, Mike** ..... Custodian/Maintenance Fill-in

**LaBeau, Marc** ..... Life Sciences Instructor  
BS, MS, Northern Michigan University

**LaMarch, Jessica** ..... Director of Admissions  
BS, Lake Superior State University

**Landenberger, Rebecca** ..... Assistant Registrar  
BSW, University of Wisconsin; MS, Northern Illinois University

**Lane, Jonathan** ..... Enterprise Application Manager  
AAS, Northern Michigan University; BS, Northern Michigan University; AAS, Northern Michigan University

**Larson, Cory** ..... Water Technology Instructor  
AAS, Bay de Noc Community College; BS, Lake Superior State University; MA, Ball State University

**Laur, David** ..... Director of Student Life  
BS, Central Michigan University; MA, Ball State University

**Lewandowski, John** ..... Custodian  
AAS, Bay de Noc Community College

**Lewandowski, Linda** ..... Dean of Allied Health  
ADN, Delta College; BSN, MSN, Northern Michigan University

**Linderoth, Karl** ..... CNSS\GIS Instructor  
BA, Lake Superior State University; Teaching Certificate, NMU; MS, Ferris State University

**Love, Nanci** ..... English Instructor  
BA, University of Michigan; MA, Eastern Michigan University

**Lundberg, Renée** ..... Manager, Grants & Programs  
AAS, Bay de Noc Community College; BS, Capella University

**Madalinski, Brent** ..... Business Instructor  
AA, Bay de Noc Community College; BS, Northern Michigan University; MS, Central Michigan University

**Martinson, Lynn** ..... Senior Accountant  
AAS, Bay de Noc Community College; BS, Lake Superior State University

**McCann, Jennifer** ..... English Instructor  
BA, University of Minnesota; MA, St. Cloud State University

**McCann, Todd** ..... English Instructor  
BA, MA, St. Cloud University

**Mead, Erica**..... TRiO Literacy Specialist  
BA, Michigan State University; MA, Northern Michigan University

**Miles, Clint**..... Custodian/Maintenance Fill-in

**Miller, Cheryl**..... Business/Computer Applications Instructor  
AS, Northwest State Community College; BS, Defiance College; MS, Ferris State University

**Milligan, Bill**..... English Instructor  
AA, Northwestern Michigan College; BS, Oakland University; MA, Central Michigan University

**Mold, Joseph**..... Director of Online Learning and Instructional Design  
BFA, ME, the University of Toledo

**Moloney, Laura** .....Director of Bay College West Student Services  
BS, University of Wisconsin-Green Bay

**Morency, Marc**.....Life Science Instructor, Bay College West  
BS, Grand Valley State University; MS, Central Michigan University

**Nelson, Christian** ..... Staff Accountant  
AAS, Bay de Noc Community College; BS, Lake Superior State University; MBA, Ball State University

**Ogle, Patrick**..... Custodian

**Olsen, Ann**..... Testing Center Manager  
AAS, Bay de Noc Community College

**Pacheco, Joseph** ..... Security Officer  
BS, Lake Superior State University

**Pavlat, Penny** .....Institutional Research & Reporting Coordinator  
Certificate, AA, AAS Bay de Noc Community College; BS, Lake Superior State University

**Pearson, Ronald** ..... Accounting/Business Instructor  
AA, Bay de Noc Community College; BS, Lake Superior State University; MA, University of Wisconsin-Madison

**Perron, Phil** ..... Custodial/Maintenance Fill-In

**Pontius, Robert**..... Executive Director of Professional & Workforce Development  
BA, Wheaton College; MS, Northwestern University

**Proctor, Keith**.....Welding Instructor  
BS, Central Michigan University

**Purdy, William**..... Instructional and Laboratory Specialist – CNSS/GIS  
AAS, Bay de Noc Community College

**Reath, Benjamin**..... Technical Support Coordinator  
AA, AAS, Bay de Noc Community College

**Roberts, Mark**..... Custodian

**Robinette, Deanna** .....Allied Health Coordinator  
AAS, Bay de Noc Community College

**Rogers, Ashley**..... Placement & Tutoring Specialist  
BS, Lake Superior State University

**Savard, Sebastian**..... IT Administrator I  
BS, Northern Michigan University

**Schaefer, Brian** ..... Technical Support Specialist  
AAS, Macomb Community College; AAS, Bay de Noc Community College

**Schwalbach, Mary**..... Nursing Instructor  
AA, Bay de Noc Community College; AS, BSN, Northern Michigan University; MSN, Capella University

**Sebeck, Ann**.....Business - Computer Applications Instructor  
AAS, AA, Bay de Noc Community College; BA, MBA, Lake Superior State University

**Seppanen, Brian**..... IT Administrator II  
BS, Northern Michigan University

**Shaw, Joseph**..... Mathematics Instructor  
BS, Adrian College; MA, Western Michigan University

**Slade, Britt**.....Mathematics Instructor-Bay College West  
BS, MS, Michigan Technological University

**Slade, Spencer**..... Mathematics Instructor  
BS, MS, Michigan Technological University

**Smith, Craig**.....Maintenance Technician

**Smith, LaVerne**.....EMT/Paramedic Program Director  
BS, Xavier University

**Spangenberg, Laurie**..... Director of Financial Aid  
AA, Moraine Park Technical College; BA, Silver Lake College; MA, City University of Seattle

**St John, Bonnie**..... Financial Aid Advisor

**Sundling, Larry**..... Instructor/Water Technology Lab Assistant  
AAS, Bay de Noc Community College

**Sundstrom-Young, Susan**..... Criminal Justice Instructor  
BS, MA, Northern Michigan University

**Talon, Matthew**.....Fill-In Custodian

**Valiquette, Ann**..... Director of Business Office  
AA, AAS, Bay de Noc Community College; BS, Lake Superior State University

**VanBrocklin, Melissa**..... Community Events and Marketing Coordinator  
AAS, Bay de Noc Community College; BS, Lake Superior State University

**Varda, Linda**..... Student Services Enrollment Facilitator Bay College West  
AAS, BS, Northern Michigan University

**Viau, Sherri**..... Staff Accountant  
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**Williams, Christine**..... Vice President of Operations  
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**Anderson, Lily** ..... Early Childhood Development  
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**Armatti, Amanda** ..... EMT/Paramedic Instructor  
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**Ayotte, Kevin** ..... Criminal Justice Instructor  
 BS, Northern Michigan University

**Baciak, Albert** ..... Mathematics Instructor  
 BS, MA, Northern Michigan University

**Bastian, Mary** ..... Music Instructor  
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**Beckon, Susan** ..... Accounting Instructor  
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**Bellingar, Trent** ..... Welding Instructor  
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**Bergan, Nicholas** ..... Instructor  
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**Berry, Myron** ..... Instructor  
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**Blixt, Megan** ..... Instructor  
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**Borchardt, Christie** ..... Instructor  
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**Brown, Samuel**..... Instructor  
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**Bryant, Peggy**..... Medical Coding Instructor  
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**Burrell, Kristen**..... Instructor  
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**Case-French, Candice**..... Instructor  
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**Cescolini, Jennifer**..... Instructor  
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**Chounard, Georgia**..... Instructor  
BSN, Northern Michigan University

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**Corrigan, Kayela**..... Instructor  
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**Craig, Lisa**..... Instructor  
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**DallaValle, Susan**..... Office Systems Instructor, West Campus  
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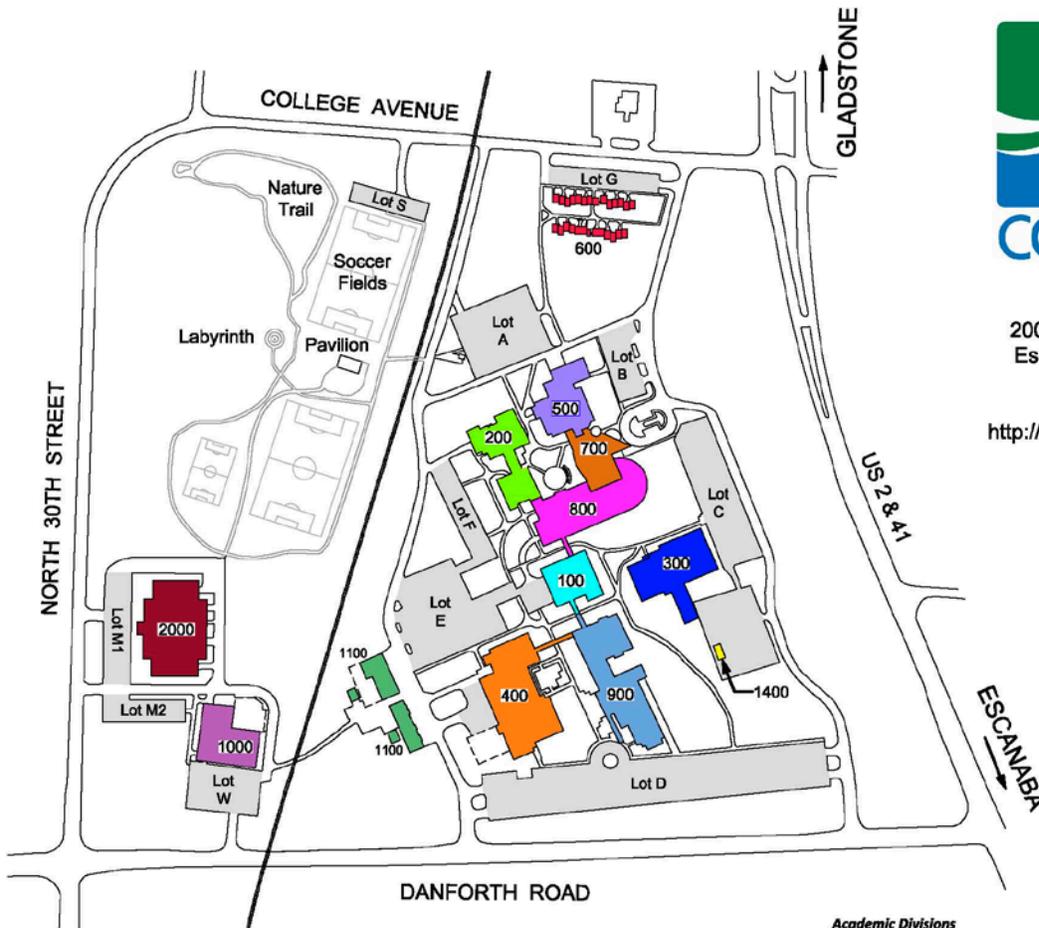
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<b>Wales, Michael</b> .....	Instructor
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<b>Wood, Ann</b> .....	Instructor
BA, University of Michigan; MA, Concordia University	
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BS, Southern Utah University; MS, Minnesota State University, Mankato	
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BS, Ferris State University	

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**CAMPUS**

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**LEGEND**

- 100 Math / Science Building (MS)
- 200 Catherine Bonifas / Administrative Services (CB)
- 300 YMCA / Gymnasium / Child Care
- 400 Besse Health and Technology (BHAT)
- 500 Student Center
- 600 Student Apartments
- 700 Besse Center
- 800 HUB
- 900 Joseph Heirman University Center (JHUC)
- 1000 Welding / Shipping and Receiving
- 1100 Maintenance Buildings
- 1400 Career Closet (CC)
- 2000 Michigan Technical Education Center (M-TEC)
- Parking Lots - A, B, C, D, E, F, G, M1, M2, S, W

<u>Academic Divisions</u>	<u>Building</u>
Arts and Letters Division.....	200
Business Division.....	900
Math/Science Division.....	100
Nursing/Allied Health and Wellness Division.....	400
Social and Behavioral Science Division.....	200
Technology Division.....	400

<u>Academic Support and Services</u>	<u>Building</u>
Accessibility.....	800
Admissions.....	500
Bookstore.....	500
Cafeteria.....	500
Cashier.....	500
Student Success Center.....	800
Event Coordinator.....	900
Conference Rooms.....	500, 800, 900, 2000
Financial Aid.....	500
Information Technology Services.....	900
Testing and Certification.....	800
Tutoring.....	800
Supplemental Instruction.....	800
Library.....	800
Online Learning and Instructional Technology.....	800
Registrar/Student Records.....	500
Safety and Security.....	200
TRIO.....	800
Veteran Support.....	500

<u>Offices</u>	<u>Building</u>
Business Office.....	200
College Advancement Office.....	200
Human Resources.....	500
President's Office.....	200
LSSU University Office.....	900

<u>Other</u>	<u>Building</u>
Art Galleries.....	200, 700
Besse Theatre/Gallery.....	700
Building and Grounds.....	1100
Shipping and Receiving.....	1000
Workforce Development.....	2000

