

# INFORMATION TECHNOLOGY (B.S.)

This program prepares the student for a challenging workplace with an enhanced knowledge of business applications. The curriculum for the degree is designed to provide students with a solid foundation in computer and information systems and business administration.

## Admission Requirements

Admission requirements for this program are satisfied by the general requirements for undergraduate admission (<http://bulletins.wayne.edu/undergraduate/general-information/admission/>) to the University.

## Academic Regulations

### Academic Probation

A student is considered to be on academic probation whenever his or her cumulative grade point average, or his or her grade point average in the computer science program, falls below 2.0. A student may also be placed on probation whenever his or her academic performance is deemed unsatisfactory. If, at the end of the first semester on probation, the student's cumulative grade point average has not increased to at least 2.0, he or she will be excluded from the Department of Computer Science. If the student's cumulative g.p.a. reaches at least 2.0 by the end of the first semester after being placed on probation, he or she will be returned to regular status. Following exclusion from the Department of Computer Science, the privilege of registering in the Department will be withheld for at least one calendar year.

### Exclusion

A student who has been refused the privilege of registering in the Department may request a reconsideration of his or her status by the Academic Standards Committee (ASC) after the one-year exclusionary period. He or she should not make the request, however, unless evidence can be provided of changes in academic preparation or circumstances that will substantially increase the likelihood of academic success. A formal written request for reconsideration must be presented to the Associate Dean for Academic Affairs. Students who plan to petition for readmission are encouraged to request a meeting with the ASC as early as possible during the exclusion period to discuss what changes may provide an opportunity for readmission. In no case is readmission to the Department of Computer Science guaranteed.

### Repeated Courses and Substandard Grades

Students will be allowed up to a maximum of five repeated courses, one repeated course for a substandard grade. If a student must repeat a subsequent course in order to complete their degree, he or she will be excluded from the Department of Computer Science (i.e., students must complete a course within three attempts). Prerequisite math and science courses that do not satisfy degree requirements, but are required if students did not place into MAT 2010, are also counted towards exclusion from the Department. A substandard grade is defined as a grade lower than the minimum requirement (i.e., a grade of C-minus in CSC 1100/1101, or a WP/WF/WN).

## Degree Requirements

Candidates must complete 120 credits in course work including satisfaction of the University General Education Requirements (<http://bulletins.wayne.edu/undergraduate/general-information/general-education/>), as well as the departmental major and business administration minor requirements cited below. All course work must be completed in accordance with the regulations of the University (<http://bulletins.wayne.edu/undergraduate/general-information/academic-regulations/>) and the College of Engineering (<http://bulletins.wayne.edu/undergraduate/college-engineering/academic-regulations/>) governing undergraduate scholarship and degrees.

Students are strongly encouraged to meet with their assigned academic advisor (<http://engineering.wayne.edu/cs/students/advising.php#undergraduate>) to discuss degree requirements as soon as possible after admittance into the program.

Code	Title	Credits
<b>Mathematics Courses</b>		
MAT 2010	Calculus I	4
ET 3850	Reliability and Engineering Statistics	3
<b>Total Credits</b>		<b>7</b>

Code	Title	Credits
<b>Professional Communication Courses</b>		
ENG 3050 or ENG 3010	Technical Communication I: Reports Intermediate Writing	3
ENG 3060	Technical Communication II: Presentations	3
<b>Total Credits</b>		<b>6</b>

Code	Title	Credits
<b>Computer Science Courses</b>		
CSC 1002	Personal Digital Security	3
CSC 1050	Introduction to C and Unix	2
BE 1600	Introduction to Programming and Computation: Python	3
CSC 1100	Problem Solving and Programming <sup>1</sup>	4
CSC 2110	Computer Science I <sup>1</sup>	4
CSC 3010	Ethics in Computer Science	3
CSC 3020	Java Programming	3
CSC 3400	Human-Computer Interaction	3
CSC 3750	Introduction to Web Technology	3
CSC 4190	Computer Network Systems and Applications	3
CSC 4310	IT Software Management	3
CSC 4320	Systems Administration	3
CSC 4330	Mobile Application Development	3
CSC 5272	Principles of Cyber Security	3
CSC 5290	Cyber Security Practice	3
CSC 5750	Principles of Web Technology	3
<b>Total Credits</b>		<b>49</b>

<sup>1</sup> CSC 1100 and CSC 2110 include a required linked lab that corresponds to the lecture.

Code	Title	Credits
<b>Engineering Technology Courses</b>		
EET 2720	Microprocessor Fundamentals	3
ET 4999	Senior Design Project	3
<b>Total Credits</b>		<b>6</b>

## Business Administration Minor

The Mike Ilitch School of Business offers a minor in business for undergraduate students majoring in other disciplines. The Business Minor consists of six courses, totaling eighteen credits. Students must also complete prerequisite courses with a minimum grade of C (2.0

g.p.a.) for each course. The minor provides an excellent opportunity for non-business majors to broaden their knowledge of the business disciplines. In addition, the program enhances career prospects and establishes a solid business base for pursuing a Master of Business Administration degree. To be eligible to apply for the Business Minor, students must have a minimum overall grade point average of 2.5.

Information Technology students must meet with a business advisor to officially declare a minor.

Code	Title	Credits
<b>Prerequisite Courses (11 credits)</b>		
BA 2300	Quantitative Methods I: Probability and Statistical Inference	3
or ET 3850	Reliability and Engineering Statistics	
ECO 2010	Principles of Microeconomics ((Social Inquiry))	4
ECO 2020	Principles of Macroeconomics ((Social Inquiry))	4
<b>Required Courses (18 credits)</b>		
ACC 3010	Introduction to Financial Accounting	3
MGT 2530	Management of Organizational Behavior	3
MKT 2300	Marketing Management	3
TIS 3630	Business Information Systems	3
Two electives from Mike Ilitch School of Business ISM courses		6
<b>Total Credits</b>		<b>29</b>

A minimum grade of C is required for the following respectively:

Code	Title	Credits
CSC 1100	Problem Solving and Programming	4
CSC 2110	Computer Science I	4

All other courses including CSC, MAT, BE, EET, ET, and courses within the General Education program must adhere to the requirements of the Engineering Division (grades of C-minus or better, unless otherwise specified).

## Information Technology Honors

To qualify for Departmental Honors, students must maintain a cumulative g.p.a. of 3.3 or higher and must complete the following coursework:

Code	Title	Credits
Department Honors Thesis (BE 5998)		3
One semester of an Honors Program 42XX level seminar		3
Six additional honors credits in Computer Science or Engineering Technology (CSC, EET, and ET) courses		6
<b>Total Credits</b>		<b>12</b>

Students should consult with the Honors College (<https://honors.wayne.edu/>) regarding additional honors-designated course work available each semester.