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 cumulative grade point average falls below 2.0. All students on academic probation are required to meet with their academic advisor to discuss what steps should be taken to remedy the academic deficiencies. While on probation, a student may not represent the College of Engineering in student activities.

A student on probation is expected to remove the grade point deficiency promptly. A student on probation is expected to remove the grade point deficiency promptly. If a student's GPA falls below 2.0, they will be placed on academic probation for two consecutive semesters—referred to as Probation #1 and Probation #2—to provide an opportunity to improve their performance. If, after these two semesters, the GPA remains below 2.0, the student may be eligible for an additional semester to meet the 2.0 requirement, provided they have earned a term GPA above 2.0 or demonstrated steady overall improvement. If not, the student will be excluded from the College.

If the student's cumulative GPA reaches at least 2.0 by the end of the first semester or second semester after being placed on probation, they will be returned to regular status. Multiple occurrences of probation in non-consecutive semesters may also result in the student's exclusion from the College. A student may also be refused the privilege of registering in the College of Engineering for irresponsible attendance and performance in class, regardless of any probationary status.

Students who have earned 90 or more credits toward their degree and meet the exclusion criteria will remain enrolled at the college if they follow an academic recovery plan.

For complete information regarding academic rules and regulations of the University, students should see the Academic Regulations (https://bulletins.wayne.edu/undergraduate/general-information/academic-regulations/) section of this bulletin.

Exclusion

Following exclusion from the College of Engineering, the privilege of registering in the College will be withheld for at least one calendar year.

A student who has been refused the privilege of registering in the College of Engineering may request a re-consideration 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 meet with their academic advisor 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 College of Engineering guaranteed.

Repeated Courses and Substandard Grades

Students that fail to pass a course with at least a 'C-minus' grade (or a grade of "C" for CSC 1100 and CSC 2110) after three attempts constitutes grounds for exclusion from the College of Engineering. Prerequisite math and science courses that do not count for degree credit, but are required if students did not place into MAT 2010 (https://bulletins.wayne.edu/search/?P=MAT%202010) are also counted towards exclusion from the College.

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
Mathematics Courses		
MAT 2010	Calculus I	4
ET 3850	Reliability and Engineering Statistics	3
Total Credits		**7**

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

Code	Title	Credits
Computer Science Courses		
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 [1]	4
CSC 2110	Computer Science I [1]	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
Total Credits		**49**

[1] CSC 1100 and CSC 2110 include a required linked lab that corresponds to the lecture.

Code	Title	Credits
Engineering Technology Courses		
EET 2720	Microprocessor Fundamentals	3
ET 4999	Senior Design Project	3
Total Credits		**6**

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
Prerequisite Courses (11 credits)		
TIS 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
Required Courses (18 credits)		
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
Total Credits		**29**

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
Total Credits		**12**

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