

# School of Engineering and Computer Science

Office of Undergraduate Advising: 255 Engineering Center

B.S.E. Computer  
Engineering  
2016-17 Catalog



Student #:

Date:

Student Last Name

Student First Name

Catalog:

Entered OU:

**GENERAL EDUCATION REQUIREMENT** - requires one course of 4 credits in each area for a minimum of 28 credits. See catalog for a list of GE courses.

	OU Course	Cr.	Grade	Transfer	Sem.	Rpt.
Arts (4)						
Foreign Language and Culture (4)						
Literature (4)						
Western Civilization (4) - <b>PHL 104 Required</b>	PHL 104					
Social Science (4) - <b>Economics Required</b>	ECN150, 201 or 202					
Global Perspectives (4)						
Writing Foundations: Comp II (4)	WRT160					

General Education Total Credits:

**GENERAL EDUCATION THAT MAY BE DOUBLE-COUNTED** - (Courses that may be used to satisfy other degree requirements.

	OU Course	Grade	Transfer	Sem.	Rpt.
U.S. Diversity					
Writing Intensive in General Education					

**MATH/SCIENCE REQUIREMENT** - requires one course of 4 credits in each area for a minimum of 32 credits. \*Asterisk\* denotes requirement for major standing

	OU Course	Cr.	Grade	Tran.	Sem.	Rpt.
MTH 154: Calculus I (4)*						
MTH 155: Calculus II (4)*						
APM 255: Intro to DiffEQ/Matrix Alg. (4)*						
APM 263: Discrete Mathematics (4)						
PHY 161: Fundamentals of Physics I (4)*						
PHY 162: Fundamentals of Physics II (4)*						
CHM 143: Chemical Principles (4)*						
Approved Math/Science Elective (4)						

Math/Science Total Credits:

**ENGINEERING CORE REQUIREMENT** - requires one course in each area of the following areas for a minimum of 21 credits.\*Denotes requirement for major standing

	Cr.	Grade	Transfer	Sem.	Rpt.
EGR 120: Engineering Graphics and Design (1)*					
EGR 141: Computer Prob. Solving in Engineering & CS (4)*					
EGR 240: Intro. to Electrical & Computer Eng. (4)*					
EGR 250: Introduction to Thermal Engineering (4)*					
EGR 260: Introduction to Industrial and Systems Eng. (4)*					
EGR 280: Des. & Analysis of Electromechanical Sys. (4)*					

Engineering Core Total Credits:

**PROFESSIONAL SUBJECTS REQUIREMENT** - requires one course of in each of the following areas for a minimum of 36 credits.

	Cr.	Grade	Transfer	Sem.	Rpt.
ECE 278: Digital Logic Design (4)					
ECE 276: Electric Circuits (4)					
CSE 229: Data Structures in C (4)					
ECE 327: Electronic Circuits and Devices I (4)					
ECE 378: Advanced Digital Design (4)					
CSE 364: Computer Organization (4)					
ECE 335: Signals and Systems (4)					
ECE 470: Microprocessors-based Systems Design (4)					
ECE 491: Senior Design (4)					

Professional Subjects Total Credits:

**PROFESSIONAL ELECTIVES REQUIREMENT** - requires three courses of 4 credits for a minimum of 12 credits. Must be select 300/400/500-level courses with one course at 400-level.

OU Course	Cr.	Grd.	Transfer	Sem.	Rpt.

Professional Electives Total Credits:

## Important Notes:

Students must be approved for **major standing** before taking any 300- or 400-level engineering or computer science course.

Students are eligible for major standing after **successful completion or registration** of all courses denoted with an asterisk\*.

**Successful completion** = minimum 2.0 GPA in Math/Science and minimum 2.0 GPA in EGR Core Requirement + no more than two (2) classes in Math/Science + EGR Core may be below 2.0.

Minimum 2.0 GPA in Professional Subjects Requirement + no more than two (2) classes may be below 2.0 for **graduation**.

Students may only repeat three (3) different courses in the Math/Science + EGR Core areas, and two (2) in the Prof. Subject/Elective areas.

## Advisor Notes:

**FREE ELECTIVES** - Courses taken in addition to degree requirements.

Course	Cred.	Gr.	Transfer	Semester

This worksheet is for advising purposes only and is not meant to be an official audit of record. Students are responsible for verifying major requirements and for reading the undergraduate catalog for all requirements necessary for degree completion at Oakland University.