

The University of Toledo
Department of Electrical Engineering and Computer Science
B.S.C.S.E. Elective Plan of Study

Student Name: _____ **R#:** _____
(Please print)

Specialization Area: _____

The courses taken as professional electives provide an opportunity for specialization in one of several areas. Before taking any professional elective courses, students must work with a faculty mentor to develop an elective plan of study and place it on file with the EECS department. One course taken as part of the requirements for a business minor may be used as a professional elective as long as the minor is completed.

1. Fill out the following chart with the consultation of a Faculty Mentor.
2. Both you and your Faculty Mentor must sign.
3. Turn in to the EECS Academic Program Coordinator who will obtain the CSE Undergraduate Director's signature and contact you with any questions or concerns.

Course Number	Course Name	Semester Planned	Credit Hours
	TOTAL: Must be at least 9 hours.		

Signatures:

Student

Date

Faculty Mentor

Date

CSE Undergraduate Director

Date

Typical CSE Undergraduate Professional Elective Courses

This is a non-exhaustive list of suggested CSE elective courses grouped by area. These groupings are solely to associate faculty with their areas of interest. A student may take courses from several areas. Upper-level courses from other engineering programs of study also qualify if approved by the faculty mentor as part of a coherent elective plan-of-study. A student who completes a business minor may use one of the business courses as part of his/her professional elective plan-of-study. Special topics (4980) and independent study (4990) courses may be used if approved by the faculty mentor.

<u>Software Design and Development</u>	<u>Digital Systems and Computer Architecture</u>
<u>Faculty Mentors</u>	<u>Faculty Mentors</u>
Dr. Jackson Carvalho Dr. Gerald Heuring Dr. Devinder Kaur Dr. Henry Ledgard Dr. Ezzatollah Salari	Dr. Mohsin Jamali Dr. Anthony Johnson Dr. Devinder Kaur Dr. Mohammed Niamat Dr. Gursel Serpen Dr. Hilda Standley
<u>Suggested Courses</u>	<u>Suggested Courses</u>
EECS 4500 Programming Languages and Paradigms 3 EECS 4510 Translation Systems 3 EECS 4520 Advanced Systems Programming 3 EECS 4530 Computer Graphics I..... 3 EECS 4540 Computer Graphics II 3 EECS 4550 Creating Multimedia Software..... 3 EECS 4560 Database Systems I 3 EECS 4570 Database Systems II..... 3 EECS 4580 Survey of Artificial Intelligence 3 EECS 4980 Human Computer Interface Design 3	EECS 4130 Digital design3 EECS 4140 Fault-Tolerant Digital Systems3 EECS 4170 Real-Time Embedded Systems Design ...3 EECS 4340 Imaging Architecture and Hardware 3 EECS 4610 Digital VLSI Design I 3 EECS 4620 Digital VLSI Design II 3 EECS 4630 Physical Design of VLSI Circuits 3 EECS 4760 Computer Security.....3 EECS 4770 Computer Hacking & Forensic Analysis.3 EECS 4780 Quantum Computing3

<u>Data Communications and Computer Networking</u>
<u>Faculty Mentors</u>
Dr. Mansoor Alam Dr. Weng Kang Dr. Junghwan Kim Dr. Lawrence Miller
<u>Suggested Courses</u>
EECS 4180 Computer Networking 3 EECS 4250 Robotics 3 EECS 4330 Image Analysis and Computer Vision 3 EECS 4370 Information Theory and Coding 3 EECS 4380 Digital Signal Processing..... 3 EECS 4390 Wireless and Mobile Networks..... 3