

Student's Name _____ UID# _____

First Year	Sem	Grade	(31 annual credit hours)	Pre-requisites	Fa	Sp	Su
ENG 1100	3.0	___	Academic Writing and Reading.....	ACT 23 or SAT Verbal 530 or WPL 40	★	a	a
EE 1000	1.0	___	Intro to Electrical Engineering.....		★	•	•
MTH 2300	4.0	___	Calculus I.....	MTH 1350 or MPL 50	★	a	a
___	3.0	___	Social Sciences (E-5).....	Note 7	★	a	a
EE 2000	3.0	___	Digital Design with HDL	MPL 40 or MTH 1280 with a minimum grade of C	★	a	•
EE 2000L	1.0	___	Digital Design with HDL Laboratory... (MPL 40 or MTH 1280 with a minimum grade of C), EE 2000c		★	a	•
___	3.0	___	Arts/Humanities (E-4).....	Note 7	a	★	•
CEG 2170	4.0	___	Introduction to C Programming	MTH 1280 or MPL 40	a	★	•
CEG 2170L	0.0	___	Introduction to C Programming Lab.....	CEG 2170c	a	★	•
PHY 2400	4.0	___	General Physics I.....(C or higher in EGR 1010 or MTH 2300), PHY 2400Lc, and PHY 2400Rc		a	★	a
PHY 2400L	1.0	___	General Physics I Laboratory.....	PHY 2400c	a	★	a
MTH 2310	4.0	___	Calculus II.....	MTH 2300	a	★	a
Credit Hours per Semester in the Model Program.....					15	16	0

Second Year	Sem	Grade	(30 annual credit hours)	Pre-requisites	Fa	Sp	Su
PHY 2410	4.0	___	General Physics II	MTH 2310c, PHY 2400, PHY 2410Lc, and PHY 2410Rc	★	a	a
PHY 2410L	1.0	___	General Physics II Laboratory	PHY 2410c	★	a	a
EE 2010	3.0	___	Circuit Analysis I	(C or better in ENG 1100 and MTH 2310) and PHY 2410/Lc	★	a	•
EE 2010L	1.0	___	Circuit Analysis I Laboratory	EE 2010c	★	a	•
EE 3510	3.0	___	Continuous and Discrete Linear Systems.....	C or better in EE 2010/L	★	•	•
EGR 3350	3.0	___	Technical Communication for Engineers and Scientists...ENG 1100 & full major standing (Note 11)		★	a	•
CEG 2171	4.0	___	C++ Programming for Scientists & Engineers.....	C or higher in CEG 2170, CEG 2171Lc	a	★	•
CEG 2171L	0.0	___	C++ Programming for Scientists & Engineers Lab.....	CEG 2171c	a	★	•
EE 4120	3.0	___	Industrial Controls	EE 3510 or EE 3210, & CEG 2170/L or ME 1020	a	★	•
EE 4120L	1.0	___	Industrial Controls Lab	EE 4120c	a	★	•
EE 3310	3.0	___	Electronic Devices and Circuits.....	MTH 2300, (C or higher in EE 2010/L)	a	★	•
EE 3310L	1.0	___	Electronic Devices and Circuits Laboratory.....	EE 3310c	a	★	•
___	3.0	___	Additional Core	Note 7	a	★	a
Credit Hours per Semester in the Model Program.....					16	14	0

Third Year	Sem	Grade	(33 annual credit hours)	Pre-requisites	Fa	Sp	Su
CS 2200	4.0	___	Discrete Structures and Their Algorithms...MPL 40 or MTH 1280 C or higher in CS 1200, CS 2200Rc		★	a	•
CS 2200R	0.0	___	Discrete Structures and Their Algorithms Recitation.....	CS 2200c	★	a	•
CEG 3310	3.0	___	Computer Organization.....	CEG 2170, EE 2000/L	★	•	•
CEG 3310L	1.0	___	Computer Organization Lab.....	CEG 3310Lc	★	•	•
CEG 2350	4.0	___	Operating System Concepts and Usage.....	CEG 2170 or CS1160, or CS 1180	★	a	•
CEG 2350L	0.0	___	Operating System Concepts and Usage Lab.....	CEG 2170 or CS1160, or CS 1180	★	a	•
EE 4130	3.0	___	Continuous Control Systems	(C or higher in EE 3210 or ME 3210), MTH 2310	★	a	•
EE 4130L	1.0	___	Continuous Control Systems Laboratory.....	EE 4130c	★	a	•
EE 4620	3.0	___	Digital Integrated Circuit Design...(C or higher in EE 2000/L & C or higher in EE 3210) or CEG 3320		a	★	•
EE 4620L	1.0	___	Digital Integrated Circuit Design Laboratory	EE 4620c	a	★	•
___	3.0	___	Technical Elective.....	Note 9	a	★	a
CS 3100	3.0	___	Data Structures & Algorithms...(C or higher in CS 1181, CEG 3310), CEG 2350, MTH 2570 or CS 2200		a	★	•
___	3.0	___	Global Traditions/History (E-3).....	Note 7..	a	★	a
EE 4170	3.0	___	Digital Control Systems	EE 4130/L	•	★	•
EE 4170L	1.0	___	Digital Control Systems Laboratory.....	EE 4170c	•	★	•
Credit Hours per Semester in the Model Program.....					16	17	0

Fourth Year		Sem	Grade	(26 annual credit hours)	Pre-requisites	Fa	Sp	Su
EE	4910	3.0 iw	_____	_____	Senior Design Project INote 10 Department Permission	★	•	•
_____	_____	4.0	_____	_____	Technical Elective.....Note 9	★	•	•
_____	_____	3.0	_____	_____	Technical Elective.....Note 9	★	•	•
_____	_____	3.0	_____	_____	Global Traditions (E-3).....Note 7	★	a	a
EE	4920	3.0 iw	_____	_____	Senior Design Project II.....EE 4910	•	★	•
_____	_____	4.0	_____	_____	Technical ElectiveNote 9	•	★	•
_____	_____	3.0	_____	_____	Technical ElectiveNote 9	a	★	•
_____	_____	3.0	_____	_____	Social Sciences (E-5)Note 7	a	★	a
Credit Hours per Semester in the Model Program.....						13	13	0

TOTAL PROGRAM CREDIT HOURS

120.0

NOTES:

1. **Advising is mandatory in order to assure timely completion of the program.** Please see a department advisor as soon as possible to ensure enrollment in the proper courses.
2. Students must meet full major requirements (24+ credit hours completed, 2.25 cumulative grade point average, C or higher in ENG 1100, PHY 2400/2400L, CEG 2170, and (EGR 1010 or MTH 2300) before being allowed to complete junior or senior level coursework.
3. In the right hand columns, (★) denotes the model schedule for a full-time student, (a) denotes "tentatively available", and (•) denotes "not available"
4. **The course(s) on the right side of the guide denote a prerequisite or a co-requisite course.** A course number followed by "c", such as (PHY ####c), denotes a co-requisite (can or must be taken at the same time).
5. See the Undergraduate Catalog for the Wright State Core requirements.
6. In addition to ENG 1100 and EGR 3350 or ENG 2140, students are required to complete two Integrated Writing "iw" courses from the Wright State Core. This may include the "iw" course EGR 1010.
7. Students must also complete two Multicultural Competence courses "MC" courses from the Wright State Core. Refer to the university catalog for additional information.
8. Student must complete at least one focus area in its entirety.
9. Technical electives are 2000+ level courses from colleges of Engineering, Science and Math, or Business. Science courses should be natural or physical science courses. Students may take one of the following 1000-level courses: EGR1010, MTH1350, EGR1980, CS1160, CS1180, or ME1020. Redundant coursework (i.e. ISE 2211, MS 2040, STT 3630, STT 2640) will not be accepted. In addition, technical electives may include 1 semester hour of internship credit (EE4810, EE4820, or EE4830). The department also has a suggest list of technical elective course above.
10. **Senior Design I (EE 4910) requires Department Permission.** Students who have 30 hours or less remaining in the program or are within two semesters of completing the BSEE program, on an advisor-approved program of study, can register for Senior Design.
11. Student may take EGR 3350 or ENG 2100 or ENG 2140 to meet the program's technical writing requirement.