

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 2020	3.0	—	Introduction to Mechatronics.....	MPL 40 or MTH 1280 with a minimum grade of C	★	a	•
EE 2020L	1.0	—	Introduction to Mechatronics Laboratory.....	EE 2020c	★	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	★	•
CEG 2170	4.0	—	Introduction to C Programming	MTH 1280 or MPL 40	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	17	0

Second Year	Sem	Grade	(34 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 4120	3.0	—	Industrial Controls	EE 2000/L	★	a	•
EE 4120L	1.0	—	Industrial Controls Lab	EE 4120c	★	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 3510	3.0	—	Continuous and Discrete Linear Systems.....	C or better in EE 2010/L	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	★	•
EGR 3350	3.0	—	Technical Communication for Engineers and Scientists...ENG 1100 & full major standing (Note 11)		a	★	a
—	3.0	—	Arts/Humanities (E-4).....	Note 7	a	★	a
Credit Hours per Semester in the Model Program.....					17	17	0

Third Year	Sem	Grade	(29 annual credit hours)	Pre-requisites	Fa	Sp	Su
EE 3520	3.0	—	Digital and Feedback Control Systems.....	C or better in EE 3510/L, EE 3520Lc	★	a	•
EE 3520L	1.0	—	Digital and Feedback Control Systems Lab.....	EE 3520c	★	a	•
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 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
Credit Hours per Semester in the Model Program.....					16	13	0

Fourth Year	Sem	Grade	(26 annual credit hours)	Pre-requisites	Fa	Sp	Su
EE 4910	3.0 iw	—	Senior Design Project I	Note 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 Elective	Note 9	•	★	•
—	—	3.0	—	—	Technical Elective	Note 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

Suggested Technical Electives

EE	3210	3.0	—	—	Linear Systems I.....(C or higher in EE 2010/L), (C or higher in CEG 2170), MTH 2310	★	a	•
EE	4000	3.0	—	—	Linear Systems II.....(C or higher in EE 3210), MTH 2310	★	a	•
EE	4210/L	3.0	—	—	Digital Communication	EE 4000	a	★
EE	4130	3.0	—	—	Continuous Control Systems	(C or higher in EE 3210 or ME 3210), MTH 2310	★	a
EE	4540/L	4.0	—	—	VLSI Design	EE 2000/L	★	a
EE	4100	3.0	—	—	Micro/Nano fab Engineering.....	EE 3310/L, PHY 2410/L	★	•
CEG	4330	3.0	—	—	Microprocessor- Embedded Sys.....	CEG 3320 or (EE 2000/L, CEG 2170)	★	a

NOTES:

- 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.
- 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.
- In the right hand columns, (★) denotes the model schedule for a full-time student, (a) denotes "tentatively available", and (•) denotes "not available"
- 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).
- See the Undergraduate Catalog for the Wright State Core requirements.
- 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.
- Students must also complete two Multicultural Competence courses "MC" courses from the Wright State Core. Refer to the university catalog for additional information.
- At least one focus area must be completed in its entirety. Additional courses outside the focus area may be taken as technical electives.
- 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.
- Senior Design I (EE 4910) requires Department Permission.** Students can only be admitted to S.D. if they have completed at least 30 hours of EE course work or they are within two semesters of completing the BSEE program on an advisor approved program of study.
- Student may take EGR 3350 or ENG 2100 or ENG 2140 to meet the program's technical writing requirement.