

Student's Name _____ UID# _____

First Year		Sem	Grade	(31 credit hours)	Pre-requisites	Fa	Sp	Su
EGR	1010	4.0 iw	_____	_____	Intro Math for Eng Appl ALEKS level 61 or MPL 40 & HS Trig or ACT MTH 25 or MTH 1350	★	a	a
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 EE and EP.....	★	•	•
EE	2000	3.0	_____	_____	Digital Design with HDLMPL 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	_____	_____	Social Sciences (E-5).....Note 4	★	a	a
CEG	2170	4.0	_____	_____	Introduction to C ProgrammingMTH 1280 or MPL 40	a	★	•
MTH	2300	4.0	_____	_____	Calculus I.....MTH 1350 or MPL 50	a	★	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 LaboratoryPHY 2400c	a	★	a
_____	_____	3.0	_____	_____	Arts/Humanities (E-4).....Note 4	a	★	a
Credit Hours per Semester in the Model Program.....						15	16	0

Second Year			Sem	Grade	(33 semester credit hours)	Pre-requisites	Fa	Sp	Su
MTH	2310	4.0	_____	_____	Calculus II	MTH 2300	★	a	a
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 higher in EGR 1010 or MTH 2300), (C or higher in PHY2400/L), ENG 1100		★	a	a
EE	2010L	1.0	_____	_____	Circuit Analysis I Laboratory	EE 2010c	★	a	a
MTH	2320	4.0	_____	_____	Calculus III	MTH 2310	a	★	a
EE	3210	3.0	_____	_____	Linear Systems I.....	(C or higher in EE 2010/L), (C or higher in CEG 2170), MTH 2310	a	★	•
EE	3310	3.0	_____	_____	Electronic Devices and Circuits.....	MTH 2300, (C or higher in EE 2010)	a	★	•
EE	3310L	1.0	_____	_____	Electronic Devices and Circuits Laboratory.....	EE 3310c	a	★	a
_____	_____	3.0	_____	_____	Global Traditions (E-3).....	(Note 4)	a	★	a
EGR	3350	3.0	_____	_____	Technical Communication for Engineers and Scientists	(ENG 1100 and full major standing)	a	★	a
Credit Hours per Semester in the Model Program.....							13	17	0

Third Year			Sem	Grade	(32 semester credit hours)	Pre-requisites	Fa	Sp	Su
MTH	2350	4.0	_____	_____	Differential Equations with Matrix Algebra.....	MTH 2310	★	a	a
EE	3450	3.0	_____	_____	Introduction to Electromagnetics.....	(C or higher in EE2010/L), PHY 2410/L, MTH 2320	★	a	•
EE	3450L	1.0	_____	_____	Intro to Electromagnetics Laboratory	EE 3450c	★	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 41300c	★	a	•
_____	_____	3.0	_____	_____	Focus Area		★	a	•
EE	4000	3.0	_____	_____	Linear Systems II.....	(C or higher in EE 3210), MTH 2310	★	a	•
EE	4210	3.0	_____	_____	Digital Communication	EE 3210, EE 3260c	★	a	
EE	4210L	1.0	_____	_____	Digital Communication Laboratory EE 4000	EE 4210c		★	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	★	a
EE	4620L	1.0	_____	_____	Digital Integrated Circuit Design Laboratory	EE 4620c	a	★	a
EE	3260	3.0	_____	_____	Random Signals and Noise.....	(C or higher in EE 4000), MTH 2350 3210	a	★	•
_____	_____	4.0	_____	_____	Focus Area		a	★	•
Credit Hours per Semester in the Model Program.....							18	15	0

Fourth Year		Sem	Grade	(24 semester credit hours)		Pre-requisites	Fa	Sp	Su	
EE	4910	3.0	iw	_____	_____	Senior Design Project I.....	Note 9	★	•	•
_____	_____	4.0	_____	_____	_____	Technical Elective	Note 8	★	a	•
_____	_____	3.0	_____	_____	_____	Technical Elective	Note 8	★	a	•
_____	_____	3.0	_____	_____	_____	Global Traditions/History (E-3).....	Note 4	★	a	a
EE	4920	3.0	iw	_____	_____	Senior Design Project II.....	EE 4910	•	★	•
_____	_____	3.0	_____	_____	_____	Technical Elective	Note 8	•	★	•
_____	_____	4.0	_____	_____	_____	Technical Elective	Note 8	a	★	•
_____	_____	3.0	_____	_____	_____	Social Sciences (E-5)	Note 4	a	★	a
Credit Hours per Semester in the Model Program.....								13	13	0

TOTAL PROGRAM CREDIT HOURS

120.0

EE Focus Area (Complete one of the areas below with a minimum of 7 hours)

Electronic Systems Focus Area

EE 4100	3.0	_____	_____	Micro/Nano fab Engineering.....	EE 3310, PHY 2400/L	★	•	a
EE 4440/L	4.0	_____	_____	Electronic Integrated Sys.....	EE 3210, EE 3310	•	a	•

Control Systems Focus Area

EE 4170/L	4.0	_____	_____	Digital Control Systems	EE 4130	•	★	•
And ONE of the following:								
EE 4190/L	4.0	_____	_____	Intelligent Control Systems.....	EE 4130	★	•	•
EE 4560/L	4.0	_____	_____	Intro to Robotics.....	MTH 2350	★	•	•
EE 4120/L	4.0	_____	_____	Industrial Controls	EE 2000	★	a	a

Microwave Engineering Focus Area

EE 4420/L	4.0	_____	_____	Microwave Engineering I.....	EE 3450	•	★	•
And ONE of the following:								
EE 4460/L	4.0	_____	_____	Microwave Engineering II.....	EE 4420	★	•	•
EE 4470/L	4.0	_____	_____	Antenna Theory and Design.....	EE 4420	★	•	•

Signal Processing and Wireless Focus Area

EE 4730/L	4.0	_____	_____	Wireless Communication	EE 4210, EE 3260	•	★	•
EE 4360	3.0	_____	_____	Digital Signal Processing.....	EE 4000	★	•	•

VLSI and Computer EGR:

EE 4540/L	4.0	_____	_____	VLSI Design	EE 2000	★	a	•
And ONE of the following:								
EE 4100	3.0	_____	_____	Micro/Nano fab Engineering.....	EE 3310, PHY 2400/L	•	★	a
CEG 4330	3.0	_____	_____	Microprocessor- Embedded Sys.....	CEG 3320 or EE 2000, CEG 2170	★	•	a
EE 4360	3.0	_____	_____	Digital Signal Processing.....	EE 4000	•	a	•
EE 4730/L	4.0	_____	_____	Wireless Communication.....	EE 4210, EE 3260	•	a	•

Software:

CEG 3310/L	4.0	_____	_____	Computer Organization.....	CEG 2170, EE 2000/L	★	•	a
CS 3100	3.0	_____	_____	Data Structures and Algorithms.....	CS 1181/L, CEG 2350/L, CEG 3310/L	•	a	•

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, all 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.
7. Students have the option to choose from the four Focus Areas above. At least one focus area must be completed in its entirety. Additional courses outside the focus area may be taken as technical electives. For planning purposes, students must pick a focus area as soon as they become full major.
8. Technical Electives are 2000+ level courses from colleges of Engineering, Science and Math, or Business. Science courses should be natural or physical science courses. Psychology 1010 or its equivalent will not be counted as a technical elective. Redundant coursework (i.e. ISE 2211, MS 2040, STT 3630, STT 2640) will not be accepted. Required courses for a student's degree cannot be double counted as technical electives.
9. Senior design students must complete EGR 3350 and **ALL** EE foundation hours.