2020-2021
EES/GE

Major: *Electrical and Computer Engineering* **Program of Study:** *Electrical Engineering*
Degree: *Bachelor of Science in Electrical and Computer Engineering (BSECE)*

Hrs. **128**

Name: _____ ID: _____ **New to OSU**: _____

email: _____ @ osu.edu

http://www.ece.osu.edu

	AU		**Bold** courses are required for entry into major	SP		
Engr (Survey)	1100	1 ____	***Engr (Fund. Of Engr II)***	1182	2 ____
Engr (Fund. Of Engr I)	1181	2 ____	***Math (Engr. Calculus II)***	1172	5 ____
Math (Calculus I)	1151	5 ____	*Physics II*	1251	5 ____
Physics I	1250	5 ____	*CSE (Programming C/C++)*	1222	3 ____

Yr. 1

*Chemistry for Engineers	1250	4 ____	Math (Ord&Part Diff Eqns)	2415	3 ____
Math (Linear Algebra)	2568	3 ____	ECE (Discrt Time Sig&Sys)	2050	3 ____
ECE (Digital Logic)	2060	3 ____	ECE (Analog Sys&Circuits)	2020	3 ____

Yr. 2 *Will accept chem 1210

ECE (Microcontrollers) 2560 2 ____

ECE (RF&Optical Engr.)	3010*	3 ____	Stat (Prob&Stat)	3470	3 ____
ECE (Intro to Electronics)	3020*	3 ____	ECE (Electronics Lab)	3027	1 ____
ECE (Semicndctr ElctrncDev)	3030*	3 ____	ECE (Energy&PowerSys. I)	3040*	3 ____
ECE (Signals&Systems)	3050*	3 ____			
ECE (Tech. Writing)	3090	1 ____			

* Recommendation: Complete all 5 of these courses by end of junior year to allow T.E based on them to be taken senior year. The order may be swapped.

Yr. 3

ISE (Engr. Econ.)	2040	2 ____	ECE (Capstone DesignII)	4905	3 ____
ECE (Capstone Design I)	3905	3 ____	☐ 4901 syllabus		

ELECTIVES (27 HRS)

☐ At least 16 hours of the Electives must be ECE Technical Electives (TE).
 ☐ Must take a concentration of 6 hours in one of the domains below.
 ☐ Must take at least 3 hours in each of two other domains below.
 ☐ Must include at least one 5000 level ECE Technical Elective.
 ☐ At least one ECE Technical Elective course must be a lab.
☐ Up to 11 hours of the Electives may be Directed Electives (DE) from the ECE approved list. Directed Electives generally include: courses required for entry into other engineering majors; required and technical elective courses in other engineering majors; pre-med courses; business or entrepreneurship courses; math, statistics, physics and chemistry courses at higher level than required in the ECE core; and other physical science or biological science courses. For physical science or biological science courses a maximum of 7 hours numbered below 2000 may be counted as Directed Electives.

COMM/DSP
Lectures
ECE 5300 3 ____
ECE 5000 3 ____
ECE 5101 3 ____
ECE 5200 3 ____
ECE 5206 3 ____
ECE 5400 3 ____
Labs
ECE 5007 0.5 ____
ECE 5207 0.5 ____
TOTAL (____)

COMPUTER
Lectures
ECE 3561 3 ____
ECE 5362 3 ____
ECE 5460 3 ____
ECE 5462 3 ____
ECE 5463 3 ____
ECE 5465 3 ____
ECE 5466 3 ____
Labs
ECE 3567 1 ____
ECE 4567 4 ____
TOTAL (____)

ELECTRONICS
Lectures
ECE 4021 3 ____
ECE 5020 3 ____
ECE 5021 3 ____
ECE 5022 3 ____
ECE 5070 3 ____
ECE 5023 3 ____
ECE 5120 3 ____
Labs
ECE 5027 4 ____
ECE 5227 4 ____
TOTAL (____)

ELECTROMAGNETICS & OPTICS
Lectures
ECE 5010 3 ____
ECE 5011 3 ____
ECE 5012 3 ____
ECE 5013 3 ____
ECE 5510 3 ____
Labs
ECE 5017 4 ____
TOTAL (____)

SOLID STATE ELECTRONICS & PHOTONICS
Lectures
ECE 5031 3 ____
ECE 5033 3 ____
ECE 5131 3 ____
ECE 5132 3 ____
ECE 5234 3 ____
ECE 5530 3 ____
ECE 5832 3 ____
ECE 5833 3 ____
Labs
ECE 5037 4 ____
ECE 5237 4 ____
TOTAL (____)

ENERGY & POWER
Lectures
ECE 5025 3 ____
ECE 5041 3 ____
ECE 5042 3 ____
ECE 5043 3 ____
Labs
ECE 3047 1 ____
ECE 5047 3 ____
ECE 5127 1 ____
TOTAL (____)

CONTROL
Lectures
ECE 3551 3 ____
ECE 5550 3 ____
ECE 5551 3 ____
ECE 5553 3 ____
ECE 5554 3 ____
ECE 5759 3 ____
Labs
ECE 3557 1 ____
ECE 5557 2 ____
TOTAL (____)

_____
_____
_____
_____
_____

General Education (24 HRS)

One GE must be a US Social or Global Diversity Course. ☐

Must take PHILOS 1332 for GE Ethics

English & Comm Skills (6 hr)
English 1110.xx _____ 3 ____
 2367 2nd writing 3 ____

Social Sciences (6 hrs)
Only one course per Social Science group may count
 Grp _____ 3 ____
 Grp _____ 3 ____

Literature
_____ 3 ____

Visual & Performing Arts
_____ 3 ____

Historical Study
_____ 3 ____

2nd Hst. Stdy. or Culture & Ideas
Philos 1332 _____ 3 ____

DIRECTED ELECTIVES
_____
_____
_____
_____
_____
_____
_____
_____
_____

Total Directed Electives (_____)

OTHER ECE TECHNICAL ELECTIVES
_____
_____
_____
_____
_____
_____

Total Other ECE Electives (_____)
Total ECE Domain Electives (_____)
TOTAL ECE Tech Electives (_____)

☐ Lab ☐ 5000-level

Hours Req'd for Degree:	**128**	Transfer students: 30 OSU ECE hrs? ☐
Earned Hours to Date:	_____	Math & B. Science: 32 hrs ☐
Total Proposed Hours:	_____	

Final CPHR: _____ **Final MGPA:** _____
OK to Graduate? Yes No _____

Program Approved:

_____   _____
Advisor's Signature   Date