2019-2020
***CES**/GE*

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

Hrs. **128**

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

email: _____@ osu.edu Phone number: _____ http://www.ece.osu.edu

CORE (87 HRS)

Bold courses are required for entry into major

	AU			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	CSE (Foundations I)	2321	3
Math (Linear Algebra)	2568	3	ECE (Discrt Time Sig&Sys)	2050	3
ECE (Digital Logic)	2060	3	ECE (Analog Sys&Circuits)	2020	3
CSE (Dev Software I)	2221	4	ECE (Microcontrollers)	2560	2
			CSE (Dev Software II)	2231	4
Yr. 2			CSE (Adv Prog In C)	2451	2
ECE (Electronics)	3020	3	Stat (Prob&Stat)	3470	3
Math (Ord & Part Diff EQNS)	2415	3	ECE (Electronics Lab)	3027	1
(Adv. Digital Design)	3561	3	ECE (Comp. Arch. Design)	5362	3
ECE (Microcontrollers Lab)	3567	1	CSE (Sys II/OS)	2431	3
Yr. 3					
ISE (Engr. Econ.)	2040	2	ECE (Capstone Design II)	4900	3
ECE (Tech. Writing)	3090	1			
ECE (Capstone Design I)	3900	1	☐ 4901 syllabus		
Yr. 4					

General Education (24 HRS)

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

Must take Philos 1332 for 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 _____

ELECTIVES (18 HRS)

- ❑ At least 9 hours of the Technical Electives must be ECE or CSE courses selected from the lists below.
- ❑ Must include at least one 5000 level ECE or CSE Technical Elective.
- ❑ Up to 9 hours of the Electives may be Directed Electives 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.

VLSI (Very Large Scale Integrated Circuits) & Computer Aided Design
ECE 5020 (3) ____ ECE 5560 (3) ____

Microprocessor Based Systems
ECE 5465 (3) ____

Digital Design and Computer Architecture
ECE 5462 (3) ____

Computer Networks
ECE 5101 (3) ____ CSE 3461 (3) ____

Signals and Systems
ECE 3050 (3) ____

Robotics and Control for Automation
ECE 3551 (3) ____ ECE 5463 (3) ____ ECE 5554 (3) ____

Digital Signal Processing/Image Processing/Machine Learning
ECE 5200 (3) ____ ECE 5206 (3) ____ ECE 5460 (3) ____
One of ECE 4300 or CSE 5523 (3) ____

Numerical Analysis
CSE 5361 (3) ____

Database/Algorithms
CSE 3241 (3) ____ CSE 5242 (3) ____

High Performance Computing
CSE 5441 (3) ____

Revised 6/21/19: AMK

CSE DIRECTED ELECTIVES

_____
_____
_____
_____
_____
_____

Total CSE Directed Elec. (_____)

OTHER ECE TECH ELECTIVES

_____
_____
_____
_____
_____

Total Other ECE TE. (_____)
Total Short List TE. (_____)
Total ECE &CSE Elec. (_____)

NON-CSE DIRECTED ELECTIVES

_____
_____
_____
_____
_____

Total Non-CSE DE (_____)

☐ 5000-level

Hours Req'd for Degree: **128**
Earned Hours to Date: _____
Total Proposed Hours: _____

Transfer students:
30 OSU ECE hrs? ☐
Math & B. Science:
32 hrs? ☐

Final CPHR: _____ **Final MGPA:** _____

OK to Graduate? Yes No _____

Program Approved:

_____
Advisor's Signature Date