2021-2022
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

AU

Course	Num	Hrs
Engr (Survey)	1100	1 ____
Engr (Fund. Of Engr I)	1181	2 ____
Math (Calculus I)	1151	5 ____
Physics I	1250	5 ____

Yr. 1

Course	Num	Hrs
Chemistry for Engineers	1250	4 ____
Math (Linear Algebra)	2568	3 ____
ECE (Digital Logic)	2060	3 ____
CSE (Dev Software I)	2221	4 ____
ECE 3090 (Tech writing)	3090	1 ____

Yr. 2 *Will accept Chem 1210

Course	Num	Hrs
ECE (Electronics)	3020	3 ____
Math (Ord & Part Diff EQNS)	2415	3 ____
ECE (Adv Digital Design)	3561	3 ____
ECE (Microcontrollers Lab)	3567	1 ____

Yr. 3

Course	Num	Hrs
ISE (Engr. Econ.)	2040	2 ____
ECE (Capstone Design I)	3905	3 ____

Yr. 4

SP

Course	Num	Hrs
Engr (Fund. Of Engr II)	1182	2 ____
Math Engr. (Calculus II)	1172	5 ____
Physics II	1251	5 ____
CSE (Programming C/C++)	1222	3 ____

Course	Num	Hrs
CSE (Foundations I)	2321	3 ____
ECE (Discrt Time Sig&Sys)	2050	3 ____
ECE (Analog Sys&Circuits)	2020	3 ____
ECE (Microcontrollers)	2560	2 ____
CSE (Dev Software II)	2231	4 ____
CSE (Adv Prog In C)	2451	2 ____

Course	Num	Hrs
Stat (Prob&Stat)	3470	3 ____
ECE (Electronics Lab)	3027	1 ____
ECE (Comp. Arch. Design)	5362	3 ____
CSE (Sys II/OS)	2431	3 ____

Course	Num	Hrs
ECE (Capstone Design II)	4905	3 ____

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 (16 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 7 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.

Humans & Justice
ECE 5570 (4) _____   ECE 5050 (3) _____

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

Cyber Security
ECE 5555 (3) _____   ECE 5561 (3) _____   ECE 5567.01 ____   ECE5567.02 ____

Microprocessor Based Systems
ECE 5465 (3) _____   ECE 5466 (3) _____

Digital Design and Computer Architecture
ECE 5462 (3) _____

Computer Networks
ECE 5101 (3) _____   CSE 3461 (3) _____   ECE 4567 (counts as 5000 level) (4)

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 5307 (4) (5300 (3)) or CSE 5523 (3) _____

Numerical Analysis
CSE 5361 (3) _____

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

High Performance Computing
CSE 5441 (3) _____

Revised 6/8/21: 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**	Transfer students: 30 OSU ECE hrs? ☐
Earned Hours to Date: _____	Math & B. Science: 30 hrs ☐
Total Proposed Hours: _____	

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

OK to Graduate?   Yes   No   _____

Program Approved:

_____   _____
Advisor's Signature   Date