ELECTRICAL & COMPUTER ENGINEERING

Academic Year 2024-2025

FIRST YEAR			SECOND YEAR		
Fall	Winter	Spring	Fall	Winter	Spring
ENGR 100 The Oregon State Engineering Student F, W, S (3)	**ENGR 102** Design Engineering And Problem Solving F, W, S (3)	ENGR 102, co-req MTH 112Z **ENGR 103** Engineering Computation and Algorithmic Thinking F, W, S (3)	MTH 251 & MTH 252 **ENGR 201** Electrical Fundamentals I U, F, W, S (3)	ENGR 201 **ENGR 202** Electrical Fundamentals II U, W, S (3)	ENGR 201, ENGR 202 & MTH 256 **ENGR 203** Electrical Fundamentals III F, S (3)
Co-Req MTH 111Z **CH 201** Chemistry for Engineers F, W (3)	**Perspectives** Biological Science U, F, W, S (4)	MTH 111Z **MTH 231** Discrete Math I U, F, W, S (4)	REC MTH 251, Co-Req MTH 252 **PH 211** Physics with Calculus U, F, W, S (4)	PH 211, REC MTH 252, Co-Req MTH 254 **PH 212** Physics with Calculus U, F, W, S (4)	REC PH 212, REC MTH 254 **PH 213** Physics with Calculus F, W, S (4)
MTH 112Z **MTH 251** Differential Calculus U, F, W, S (4)	MTH 251 **MTH 252** Integral Calculus U, F, W, S (4)	MTH 252 **MTH 254** Vector Calculus U, F, W, S (4)	MTH 254 **MTH 256** Differential Equations U, F, W, S (4)	MTH 252 **MTH 264** Intro to Matrix Algebra U, F, W, S (2)	MTH 254 **MTH 255** Vector Calculus II U, F, W, S (4)
WR 121Z English Composition Alpha Sectioned F, W, S (4)	**COMM 111Z/114** Speech U, F, W, S (4/3)	**Perspectives** Western Culture U, F, W, S (3)	ENGR 103 **CS 162** Intro to Comp. Sci. II C++, C U, F, W, S (4)	MTH 252 **MTH 265** Intro to Series U, F, W, S (2)	Co-req MTH 231 or co-req MTH 251 **ECE 271&2** Digital Logic Design & Lab U, F, S (3+1)
HHS 231 Lifetime Fitness F, W, S (2)	**PAC** Physical Activity U, F, W, S (1)			CS 162, MTH 231 **CS 261** Data Structures C U, F, W, S (4)	

Notes:

1. U, F, W, S: Represents the term the course is offered on-campus (Summer, Fall, Winter, Spring).
2. Courses may also be offered through Ecampus.
3. (_): Represents the credits of the course.
4. Arrows: Represents prerequisites, co-requisites, and recommendations.
5. Summer courses may be canceled due to low enrollment.
6. 180 total credits are needed to graduate.
7. Students cannot S/U major courses.

Revised 6/14/2024

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THIRD YEAR			FOURTH YEAR		
Fall	Winter	Spring	Fall	Winter	Spring
ENGR 203 → **ECE 322** Electronics I U, F, W (3)	ECE 322 → **ECE 323** Electronics II W, S (3)	CS 261 & (CS 271 OR ECE 271) → **ECE 372** Intro. to Computer Networks U, F, W, S (4)	**ECE Elective** (4)	**ECE Elective** (4)	**ECE Elective** (3)
ENGR 203 & MTH 256 → **ECE 351** Signals & Systems I U, F, W (3)	ECE 351 & MTH 264+265 → **ECE 352** Signals & Systems II W, S (3)	ECE 351 → **ECE 353** Intro to Prob & Random Signals W, S (3)	ECE 342, WR 227Z → **ECE 441** Senior Capstone I F (3)	ECE 441 → **ECE 442** Senior Capstone II W (3)	ECE 442 → **ECE 443** Senior Capstone III S (2)
Co-req CS 261, ENGR 203 → **ECE 341** JR Project F, W (3)	ECE 341 → **ECE 342** JR Project W, S (3)	Co-req ECE 322, ENGR 203, MTH 254, MTH 256 → **ECE 391** Transmission Lines W, S (3)	**ECE Elective** (4)	**ECE Elective** (4)	**ECE Elective** (3)
ECE 271 → **ECE 375** Computer Org. & Assembly Language F, W (4)	Varies by course → **CS 374 or ECE 390** U, F, W, S (4)	Junior Standing → **CS 391** Social/Ethical Issues (STS Synthesis) F, S (3)	**Difference, Power & Discrimination** U, F, W, S (3)	**Perspectives** Social Processes & Institutions U, F, W, S (3)	**ECE Elective** (3)
WR 121Z → **WR 227Z** Technical Writing F, W, S (4)	**Perspectives** Cultural Diversity U, F, W, S (3)	**Synthesis** Contemporary Global Issues U, F, W, S (3)			**Perspectives** Literature & Arts U, F, W, S (3)

Notes:

1. U, F, W, S: Represents the term the course is offered on-campus (S**u**mmer, **F**all, **W**inter, **S**pring).
2. (_): Represents the credits of the course.
3. Arrows: Represents prerequisites, co-requisites, and recommendations.
4. Summer courses may be canceled due to low enrollment.
5. 180 total credits are needed to graduate.
6. Students cannot S/U major courses.
7. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits.
8. ECE 441, 442, and 443 must be completed in the same academic year.

Revised 6/14/2024