**ELECTRICAL & COMPUTER ENGINEERING**

**Academic Year 2023-2024**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGR 100</strong></td>
<td><strong>ENGR 102</strong></td>
<td><strong>ENGR 103</strong></td>
</tr>
<tr>
<td>The Oregon State Engineering Student</td>
<td>Design Engineering And Problem Solving</td>
<td>Engineering Computation and Algorithmic Thinking</td>
</tr>
</tbody>
</table>

| **CH 201**    | **Perspectives** | **MTH 231**  |
| Chemistry for Engineers | Biological Science | Discrete Math I |

| **MTH 251**   | **MTH 252**   | **MTH 254**  |
| Differential Calculus | Integral Calculus | Vector Calculus |

| **WR 121Z**   | **COMM 111Z/114** | **Perspectives**  |
| English Composition | Speech | Western Culture |

| **HHS 231**  | **PAC**    |
| Lifetime Fitness | Physical Activity |

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>ENGR 201</strong></td>
<td><strong>ENGR 202</strong></td>
<td><strong>ENGR 203</strong></td>
</tr>
<tr>
<td>Electrical Fundamentals I</td>
<td>Electrical Fundamentals II</td>
<td>Electrical Fundamentals III</td>
</tr>
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| **PH 211**  | **PH 212**  | **PH 213**  |
| Physics with Calculus | Physics with Calculus | Physics with Calculus |

| **MTH 251 & MTH 252** | **MTH 256** | **MTH 264** |
| Intro to Comp. Sci. II | Intro to Matrix Algebra | F, W, S, U (2) |
| C++, C | F, W, S, U (4) | F, W, S, U (2) |

| **MTH 251** | **MTH 252** | **MTH 265** |
| Co-Req MTH 251, Co-Req MTH 252 | MTH 254 | Intro to Series |
| PH 211, REC MTH 252, & Co-Req MTH 254 | MTH 252 | F, W, S, U (2) |

| **MTH 252** | **MTH 264** | **CS 162** |
| Intro to Matrix Algebra | F, W, S, U (4) | Data Structures |
| F, W, S, U (2) | Co-req MTH 231 or co-req MTH 251 | C |

| **CS 261** | **ECE 271&2** |
| Data Structures | Digital Logic Design & Lab |
| F, W, S, U (4) | F, S, U (3+1) |

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

Revised 6/7/2023
ELECTRICAL & COMPUTER ENGINEERING

THIRD YEAR

Academic Year 2023-2024

Fall	Winter	Spring

ECE 322 Electronics I
F, W, U (3)

ECE 332 Electronics II
W, S (3)

ECE 372 Intro. to Computer Networks
F, W, S, U, E (4)

ECE 351 Signals & Systems I
F, W, U (3)

ECE 352 Signals & Systems II
W, S (3)

ECE 353 Intro to Prob & Random Signals
W, S (3)

CS 261 & (CS 271 OR ECE 271)

ECE 323 & MTH 264+265

ECE 351 & MTH 254 & MTH 256

ECE 341 JR Project
F, W (3)

ECE 342 JR Project
W, S (3)

ECE 391 Transmission Lines
W, S (3)

ECE Elective
(4)

ECE Elective
(4)

ECE Elective
(3)

CS 344 or ECE 390
F, W, U, E (4)

CS 391 Social/Ethical Issues
(STS Synthesis)
F, S, E (3)

Perspectives
(4)

Perspectives
(3)

ENGR 203

ECE 271

WR 121

WR 227Z Technical Writing
F, W, S, U, E (3)

Perspectives
Cultural Diversity
F, W, S, U, E (3)

Synthesis
Contemporary
Global Issues
F, W, S, U, E (3)

Notes:
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2. (): Represents the credits of the course
3. Arrows: Represents prerequisites, co-requisites
4. Summer Courses may be cancelled 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

Fourth Year

Fall	Winter	Spring

ECE Elective
(4)

ECE Elective
(4)

ECE Elective
(3)

ECE 341
F (3)

ECE 342
W (3)

ECE 342
S (2)

ECE 342, WR 327

ECE Elective
(3)

ECE Elective
(3)

ECE Elective
(3)

Difference, Power & Discrimination
F, W, S, U, E (3)

Perspectives
Social Processes & Institutions
F, W, S, U, E (3)

Perspectives
(3)

Perspectives
Literature & Arts
F, W, S, U, E (3)

Must be taken sequentially:
F, W, S

Engr 203 & MTH 256

ENGR 203

Co-req CS 261 & ENGR 203

Co-req ECE 322, ENGR 203, MTH 254 & MTH 256

Junior Standing

Junior Standing

Must be taken sequentially:
F, W, S