

COMPUTER SCIENCE – **APPLIED** OPTION (Corvallis Campus)

FIRST YEAR

Academic Year 2023-2024

SECOND YEAR

Fall Winter Spring Fall Winter Spring

ENGR 100
The Oregon State
Engineering Student
F, W, S, U (3)

ENGR 102
Design Engineering
And Problem Solving
F, W, S, U (3)

ENGR 102 & co-req MTH 112
↙
ENGR 103
Engineering
Computation and
Algorithmic Thinking
F, W, S, U (3)

ENGR 103 or CS 161
↙
CS 162
Intro to Comp. Sci. II
C++, C
F, W, S, U (4)

ENGR 103 or CS 161
↙
CS 271
Computer Arch. &
Assembly Lang.
W, S, U (4)

Pick 4 of 5
(CS 352, CS 370,
CS 372, CS 381,
CS 444)
(4)

MTH 112
↙
MTH 251
Differential Calculus
F, W, S, U (4)

MTH 251
↙
MTH 252
Integral Calculus
F, W, S, U (4)

MTH 111
↙
MTH 231
Discrete Math
F, W, S, U (4)

Perspectives
Physical Science
F, W, S, U (4)

(CS 225 or MTH 231) & CS 162
↙
CS 261
Data Structures
C
F, W, S, U (4)

CS 162
↙
CS 290
Web Development
F, S (4)

WR 121Z
English Composition
Alpha Sectioned
F, W, S, U (4)

COMM
111Z/114
Speech
F, W, S, U (3-4)

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

WR 121
↙
WR 214
Writing in Business
F, W, S, U (3)

Perspectives
Second Biological
or Physical Science
F, W, S, U (4)

WR 121
↙
WR 227Z
Technical Writing
F, W, S (4)

HHS 231 +
241/PAC
Lifetime Fitness
F, W, S, U (2+1)

Perspectives
Biological Science
F, W, S, U (4)

Perspectives
Western Culture
F, W, S, U (3)

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

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

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

**Unrestricted
Electives**

(3)

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

COMPUTER SCIENCE – APPLIED OPTION (Corvallis Campus)

THIRD YEAR

Academic Year 2023-2024

FOURTH YEAR

Fall Winter Spring Fall Winter Spring

CS 261 & (CS 271 or ECE 271) CS 261 & (CS 225 or MTH 231)

CS 344
Operating Systems I
F, W, S, U (4)

CS 325
Analysis of Algorithms
F, W, S, U (4)

Pick 4 of 5
(CS 352, CS 370,
CS 372, CS 381,
CS 444)
(4)

Approved
Applied Elective
(4)

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

Pick 4 of 5
(CS 352, CS 370,
CS 372, CS 381,
CS 444)
(4)

CS 261
CS 361
Software Engineering I
F, W, U (4)

CS 261
CS 362
Software Engineering II
W, S, U (4)

Pick 4 of 5
(CS 352, CS 370,
CS 372, CS 381,
CS 444)
(4)

CS 325, CS 361, & CS 362
CS 461
Senior Capstone I
F (3)

CS 461 & CS 362
CS 462
Senior Capstone II
W (3)

CS 462
CS 463
Senior Capstone III
S (2)

Approved
Applied Elective
(4)

Approved
Applied Elective
(4)

Approved
Applied Elective
(4)

CS
Restricted Elective
(3)

CS
Restricted Elective
(3)

CS
Restricted Elective
(3)

CS 290
CS 340
Introduction to Databases
F, S, U (4)

Approved
Applied Elective
(4)

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

Approved
Applied Elective
(4)

Approved
Applied Elective
(4)

Approved
Applied Elective
(4)

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7. Majority of courses are also offered online through Ecampus
8. Approved Applied Plans require a minimum of 32 credits approved by the Department
9. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits
10. Pick 4 of 5: Picked course cannot also be used as an Approved Applied Elective

Unrestricted Electives
(3)

Unrestricted Electives
(3)