

**United States Armed Forces / Old Dominion University  
Military Pathway  
Catalog Year 2024-2025  
Bachelor of Science in Computer Engineering w/built-in Computer Science Minor**

**Requirements Potentially Satisfied Outside Classroom**

Military Course, Certification, Experience, or Exam	ODU Equivalent Course	Credits
<b>Lower-Division General Education Requirements</b>		
CLEP <sup>1 2 3</sup> College Composition ( <u>not</u> Modular)	ENGL 110C English Composition	3
DSST Technical Writing	ENGL 231C Writing, Rhetoric, and Research: Special Topics	3
Instructor, career counselor, select specialties	COMM 101R Public Speaking	3
CLEP Foreign Languages or military linguist or DLIFLC grad	Language and Culture requirement <sup>4</sup>	0-6
CLEP Any one of eight Social Science exams except Ed Psych	Human Behavior requirement	3
CLEP Any one of six History exams	Interpreting the Past requirement	3
CLEP American or Analyzing & Interpreting Literature	Literature requirement	3
<b>Department or Major Requirements</b>		
Nuclear Power School graduate or certain specialties	ENGN 121 Introduction to Engineering and Technology	4
Nuclear Power School graduate or certain specialties or CLEP Chemistry (meets lecture credit only)	CHEM 121N & 122N Foundations of Chemistry I lecture & lab or CHEM 121N & 123N Foundations of Chemistry I & II lecture only	4 or 6
<b>Potential requirements met outside classroom</b>		<b>26-34</b>

Notes:

- Prior learning credit not to exceed 60 credit hours is also available in specific situations at a cost of 20-50% of the current tuition rate: <https://ww1.odu.edu/academics/academic-records/evaluation-of-credit/prior-learning>
- Computer Engineering majors must earn a grade of C or better in all 200-level ECE courses and all CS courses prior to taking the next course in the sequence.

<sup>1</sup> A passing CLEP or DSST examination score will satisfy the ODU requirement. See <https://clep.collegeboard.org/> and <https://www.odu.edu/academics/academic-records/score-analysis/clep-dantes> for details.

<sup>2</sup> A student may forego CLEP or DSST options and meet requirements by taking courses. If a course is to be taken elsewhere check first for transfer equivalency here <https://transfer2.odu.edu/equivalency/>.

<sup>3</sup> Modern States offers CLEP preparation here <https://modernstates.org/>.

<sup>4</sup> ODU's Language and Culture requirement can be met by three years of a foreign language or two years of two foreign languages in high school. Students whose native language is not English are exempt from taking a foreign language for general education.

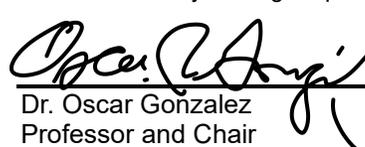
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**Requirements Satisfied at ODU or Elsewhere**  
*A minimum of 30 credits must be taken at ODU and 120 credits total to earn degree*

Short Title	Course Title	Credits
<b>Computer Engineering Major Requirements</b>		
CS 252	Introduction to Unix for Programmers	1
CS 261	Java for Programmers	1
CS 330 or 350	Object-Oriented Design and Programming or Introduction to Software Engineering	3
CS 361	Advanced Data Structures and Algorithms	3
CS 381	Introduction to Discrete Structures	3
CS 471	Operating Systems	3
ECE 201 & 202	Circuit Analysis I and II	6
ECE 241	Fundamentals of Computer Engineering	4
ECE 250	Object Oriented Programming in C++ for Engineers	3
ECE 287	Fundamental Electric Circuit Laboratory	2
ECE 302, 306, 314, or 350	Linear System Analysis, Discrete System Modeling & Simulation, Math for Data Analytics Engineering	3
ECE 304	Probability, Statistics, and Reliability	3
ECE 341	Digital System Design	3
ECE 342	Field Programming Gate Arrays Design Laboratory	2
ECE 346	Microcontrollers	3
ECE 355	Introduction to Networks and Data Communications	3
ECE 381	Introduction to Discrete-time Signal Processing	3
ECE 443	Computer Architecture	3
ECE 481W	Preparatory ECE Senior Design	3
ECE 482	ECE Senior Design	3
ECE Technical Electives	ECE Technical Elective requirements	9
ENGN 122	Computer Programming for Engineering	4
ENMA 480	Ethics and Philosophy in Engineering Applications	3
Human Creativity	Human Creativity requirement	3
MATH 211 & 212	Calculus I and II	8
MATH 307	Ordinary Differential Equations	3
PHYS 231N & 232N	University Physics I and II	8
<b>Requirements met at ODU or elsewhere</b>		<b>96</b>
<b>Total credits for degree</b>		<b>128+</b>

Next steps:

- Submit application at <https://www.odu.edu/apply/applications>. Online students - use application fee waiver code provided by your ODUGlobal enrollment coordinator.
- Order your high school, college, CCAF, and/or joint service transcripts sent to [admissions@odu.edu](mailto:admissions@odu.edu) or Old Dominion University, Undergraduate Admissions, 1004 Alfred B. Rollins Jr. Hall, Norfolk, Virginia 23529-0050.
- Electronically sign your application.
- Monitor your application portal for status updates until an admission decision is made.
- Accept your admission offer and set up your ODU account/email as directed by Admissions.
- Complete orientation and meet with your academic advisor prior to course registration.
- Finalize your degree plan with your academic advisor based on this pathway.

 4/12/2024  
 Dr. Oscar Gonzalez  
 Professor and Chair  
 Electrical and Computer Engineering  
 Old Dominion University

 4-21-24  
 Dr. Brian Payne  
 Vice Provost  
 Academic Affairs  
 Old Dominion University