

## 2022 - 2023 Old Dominion University Catalog

### Bachelor of Science in Computer Engineering - Modeling & Simulation Engineering Major (with VCCS Equivalencies)

*Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed.*

*\* indicates not automatically waived with transferrable associates degree, C or better required for transfer. Courses in green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees). AS in Engineering is recommended for ease of transfer.*

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ENGN 110	EGR 121, 120, or 124*	<span style="color: green;">ECE 111</span>	<span style="color: green;">EGR 122, or ITE 119*</span>
CHEM 121N/122N	CHM 111*	CHEM 123N	CHM 112*
MATH 211	MTH 173, 263, or 273*	MATH 212	MTH 174, 264, or 274*
ENGL 110C (C or better required)	ENG 111*	ENGN 150	EGR 125*
<span style="color: green;">COMM 101R</span>	<span style="color: green;">CST 100, 105 or 110*</span>	PHYS 231N	PHY 231 or 241*

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 307 (280)	MTH 267, 279 or 291*	ECE 202**	EGR 261 or 272*
ECE 201**	EGR 260 or 271*	ECE 287***^	EGR 262 or EGR 271 + 272*
ECE 241**	EGR 270 or 277*	CS 250	CSC 210 or ITP 232*
PHYS 232N	PHY 232 or 242*	CS 252	ITN 171 or 271*
ENGL 231C (C or better required)	ENG 115 or 131*	CS 381	
		<span style="color: green;">Literature</span>	<a href="#">Transfer Equivalency Guide</a>

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 302		ECE 346	
ECE 313 (4 credits)		ECE 348	
ECE 341		ECE 320	
ECE 306		ECE 406	
ECE 304		<span style="color: green;">Interpreting the Past</span>	<a href="#">Transfer Equivalency Guide</a>

#### YEAR 4 - SENIOR (32 CREDITS)

<b>FALL SEMESTER (17 credits)</b>	<b>SPRING SEMESTER (14 credits)</b>		
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 484W (C or better required)		ECE 487 (2 credits)	
ECE 486 (2 credits)		ECE Technical Elective	
ECE Technical Elective		ECE Technical Elective	
ENMA 480 (Satisfies Philosophy and Ethics)		<span style="color: green;">Human Behavior</span>	<a href="#">Transfer Equivalency Guide</a>
<span style="color: green;">Human Creativity</span>	<a href="#">Transfer Equivalency Guide</a>	Upper Division General Education	
Upper Division General Education			

**TOTAL CREDIT HOURS: 128**

This 4-year plan does not include 6 credits in Language and Culture, but this requirement may be waived; see ODU catalog for details.

Modeling & Simulation Engineering majors (BSCOME) 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.

\* C or better required for transfer.

\*\*From John Tyler Community College only: EGR 251 = ECE 201; EGR 261 = ECE 202; EGR 255 + EGR 263 = ECE 287

& from Germanna Community College: EGR 251 = ECE 201; EGR 252 = ECE 202; EGR 255 + EGR 261 = ECE 287

& from Northern Virginia Community College: EGR 251 = ECE 201; EGR 252 = ECE 202; EGR 265 = ECE 241

^ EGR 271 (4 cr) + EGR 272 (4 cr) = ECE 201 (3 cr) + ECE 202 (3 cr) + ECE 287 (2 cr) requirements. Both EGR 271 & EGR 272 must be completed to receive credit for ECE 287.