

## 2014 - 2015 Old Dominion University Catalog

### Bachelor of Science in Modeling and Simulation Engineering

*This is a sample four year curriculum with a suggested ordering of courses. Students have the flexibility of re-ordering as needed and where appropriate.*

#### YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (17 credits)	
<u>General Education Coursework:</u>	<u>Credit Hours</u>	<u>General Education Coursework:</u>	<u>Credit Hours</u>
MATH 211	4	MATH 212	4
ENGL 110C (C or better required)	3	CHEM 123N**	3
CHEM 121N**	3	CS 150	4
CHEM 122N**	1	PHYS 231N	4
ENGN 110	2	MSIM 111	2
COMM 101R	3		

#### YEAR 2 - SOPHOMORE (31 CREDITS)

FALL SEMESTER (15 credits)		SPRING SEMESTER (16 credits)	
<u>Major Coursework:</u>	<u>Credit Hours</u>	<u>General Education and Major Coursework:</u>	<u>Credit Hours</u>
MSIM 201	3	MSIM 205	3
STAT 330	3	MSIM 281	1
PHYS 232N	4	MATH 307	3
CS 250	4	ENGL 231C (C or better required)	3
CS 252	1	Human Creativity	3
		Literature	3

#### YEAR 3 - JUNIOR (32 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (16 credits)	
<u>Major Coursework:</u>	<u>Credit Hours</u>	<u>Major Coursework:</u>	<u>Credit Hours</u>
CS 330	3	MSIM 331	3
CS 381	3	MSIM 383	1
MSIM 320	3	Interpreting the Past	3
MSIM 382	1	MSIM 410	3
Human Behavior	3	MSIM 451	3
Approved Program Elective	3	Upper-Division General Education	3

#### YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (15 credits)	
<u>Major Coursework:</u>	<u>Credit Hours</u>	<u>Major Coursework:</u>	<u>Credit Hours</u>
MSIM 441	3	ENMA 480	3
MSIM 487W (C or better required)	4	MSIM 488	3
Upper-Division General Education	3	Approved Program Elective	3
ENMA 401	3	Approved MSIM Technical Elective II	3
Approved MSIM Technical Elective I	3	Impact of Technology	3

**TOTAL CREDIT HOURS: 127**

\*Does not include the University's General Education Language and Culture Requirement. Additional hours may be required.

\*\*Students in the Modeling and Simulation Engineering Program may substitute BIOL 121N/122N and BIOL 123N/124N in place of the CHEM 121N, CHEM 122N, and CHEM 123N requirement

The General Education requirements in Information Literacy and Research and Philosophy and Ethics are met through the major.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.