

## 2018 - 2019 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)	
General Education Coursework:	Credit Hours	General Education Coursework:	Credit Hours
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)	
Major Coursework:	Credit Hours	General Education and Major Coursework:	Credit Hours
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)	
General Education and Major Coursework:	Credit Hours	General Education and Major Coursework:	Credit Hours
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 course/Option D Course I	3

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

FALL SEMESTER (16 credits)		SPRING SEMESTER (15 credits)	
Major Coursework:	Credit Hours	Major Coursework:	Credit Hours
MSIM 441	3	ENMA 480 (Satisfies Philosophy and Ethics)	3
MSIM 487W (C or better required)	4	MSIM 488	3
Upper-Division General Education course/Option D Course II	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 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.