Bachelor of Science in Modeling and Simulation Engineering  
2011-2012 Old Dominion University Catalog

NAME: ____________________________  
UIN: ____________________________

Freshman First Semester (16 Credit Hours)  
MATH 211 Calculus I ____________  
CHEM 121N/122N Foundations of Chemistry I (Lecture&Lab) ____________  
ENGL 110C English Composition ____________  
ENGN 110 Explore Engr & Tech I ____________  
Gen Ed Oral Communication ____________  

Freshman Second Semester (17 Credit Hours)  
MATH 212 Calculus II ____________  
CHEM 123N Foundations of Chemistry II (Lecture) ____________  
PHYS 231N University Physics ____________  
CS 150 Introduction to Programming ____________  
MSIM 111 Information Lit & Research ____________  

Sophomore First Semester (15 Credit Hours)  
PHYS 232N University Physics II ____________  
MSIM 201 Introduction to M&S ____________  
STAT 330 Probability and Statistics ____________  
CS 250 Programming II ____________  
CS 252 Introduction to UNIX ____________  

Sophomore Second Semester (16 Credit Hours)  
MSIM 205 Discrete Event Simulation ____________  
MSIM 281 Discrete Event Simulation Lab ____________  
MATH 307 (MATH 280) Differential Equations ____________  
ENGL 231C Technical Writing ____________  
Gen Ed: Human Creativity Way of Knowing ____________  
Gen Ed: Literature Way of Knowing ____________  

Junior First Semester (16 Credit Hours)  
MSIM 320 Continuous Simulation ____________  
MSIM 382 Continuous Simulation Lab ____________  
CS 330 Object-oriented Prog&Design ____________  
CS 381 Discrete Structures ____________  
Gen Ed: Human Behavior Way of Knowing ____________  

Junior Second Semester (16 Credit Hours)  
MSIM 331 Simulation Software Design ____________  
MSIM 383 Simulation Software Design Lab ____________  
MSIM 351 Analysis for Modeling & Simul. ____________  
MSIM 310 System Modeling ____________  
MSIM 4XX Approved MSIM Elec I ____________  
Gen Ed: Upper Division: Option D Course 1 ____________  

Senior First Semester (16 Credit Hours)  
MSIM 441 Comp Graphics & Visualization ____________  
MSIM 487W Capstone Design I ____________  
MSIM 4XX Approved MSIM Elective II ____________  
ENMA 401 Project Management ____________  
Gen Ed: Upper Division: Option D Course 2 ____________  

Senior Second Semester (16 Credit Hours)  
MSIM 488 Capstone Design II ____________  
MSIM 4XX Approved MSIM Elective III ____________  
ENMA 480 Engineering Ethics ____________  
ENGN 401 FE Exam Review ____________  
Gen Ed: Interpreting the Past Way of Knowing ____________  
Gen Ed: Impact of Technology Way of Knowing ** ____________  

Total Credits 128

Additional Graduation Requirements:  
Foreign Language Requirement: _______  
Senior Assessment: _______  
Application for Graduation: _______  
Passage of Exit Writing Exam _______  

The General Education requirements in information literacy and research and philosophy and ethics are met through the major. This curriculum does not include the University’s foreign language general education requirement. Students may need additional hours to meet this perspective.  
** This course is a departmental requirement and may not waived by the completion of an associate degree. Coursework may be taken either at ODU or the community college.