SOUTHERN MARYLAND HIGHER EDUCATION CENTER

is Proud to Present in Partnership with

UMCP, CSM & NAWCAD

a B.S. in Mechanical Engineering

with Aeronautical Engineering Electives

Highlights of the Program Include:

NAWCAD Tuition & Book Assistance • Hands on learning in our Engineering Lab

Instruction Augmented by our Helicopter & Fixed Wing Simulators

For More Information on this program contact:

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Southern Maryland
SMHEC
Higher Education Center

44219 Airport Road, California, MD 20619 • 301.737.2500 • www.smhec.org

CSM Curriculum Requirements

CHE-1350	General Chemistry for Engineers
EGR-1100	Introduction to Engineering
MTH-1200	Calculus I and Analytic Geometry
ENG-1010	Composition and Rhetoric
Arts Acceptable: See Approved Gen Ed listing	
MTH-1210	Calculus II
PHY-1210/1210L	General Engineering Physics I and Lab
EGR-1210	Statics
MTH-2200	Calculus III
PHY-2200/2200L	General Engineering Physics II and Lab
EGR-2200	Mechanics of Materials
EGR-2210	Dynamics
Social/Behavioral Sciences Acceptable: See Approved Gen Ed Listing	
PHY-2210/2210L	General Engineering Physics III and Lab
EGR-2320	Thermodynamics
MTH-2210	Differential Equations
EGR-2710	Introduction to Matlab for Engineers

UMCP Curriculum Requirements

Basic Science Requirements

CHEM 135	General Chemistry for Engineers
PHYS 161	General Physics: Mechanics and Particle Dynamics
PHYS 260/1	General Physics: Vibration, Waves, Heat, Electricity & Magnetism
PHYS 270/1	General Physics: Electrodynamics, Light, Relativity & Modern Physics
MATH 140	Calculus I
MATH 141	Calculus II
MATH 241	Calculus III
MATH 246	Differential Equations for Scientists and Engineers

Engineering Science Requirements

ENES 100	Introduction to Engineering Design
ENES 102	Mechanics I
ENES 220	Mechanics II
ENES 221	Dynamics

Major Requirements

ENES 232	Thermodynamics
ENME 271	Introduction to MATLAB
ENME 331	Fluid Mechanics
ENME 332	Transfer Processes
ENME 350	Electronics & Instrumentation I
ENME 351	Electronics & Instrumentation II
ENME 361	Vibrations, Controls & Optimization I
ENME 371	Product Engineering & Manufacturing
ENME 392	Statistical Methods for Product & Process Development
ENME 472	Integrated Product & Process Development
ENME 4XX	6 Technical Electives (Technical Electives at SMHEC are mostly in Aeronautical Engineering)