

MECHANICAL ENGINEERING

BACHELOR OF SCIENCE

DEPARTMENT OF MECHANICAL ENGINEERING


HOWARD
UNIVERSITY

4-YEAR ADVISING SCHEME

Students seeking the Bachelor of Science in Mechanical Engineering must complete a minimum of 120 credit hours comprised of core courses in mechanical engineering (53 credits), science, engineering, and mathematics courses (37 credits), technical electives (6 credits), free electives (3 credits), social science and humanities courses (12 credits), including an African American Studies elective (3 credits), and general curriculum courses (7 credits).

FALL SEMESTER 1

Number	Course Title	Credits
ENGW--	English First-Year Writing (1)	3
MATH 156	Calculus I	4
CHEM 003	General Chemistry I Lecture	4
EGPP 101	Intro to Engineering	2
HHPL--	Physical Education	1
Total Credits		14

SPRING SEMESTER 1

Number	Course Title	Credits
ENGW--	English First-Year Writing (2)	3
MATH 157	Calculus II	4
PHYS 013	Physics I Lecture (Science and Engineering)	3
PHYS 023	Physics I Lab (Science and Engineering)	1
MEEG 103	Intro to Computer Aided Design	2
ECON 001	Economics I	3
Total Credits		16

FALL SEMESTER 2

Number	Course Title	Credits
--	Social Science/Humanities Elective	3
MATH 158	Calculus III	4
PHYS 014	Physics II Lecture (Science and Engineering)	3
PHYS 024	Physics II Lab (Science and Engineering)	1
MEEG 207	Intro to Engineering Computations	3
CIEG 202	Statics	3
Total Credits		17

SPRING SEMESTER 2

Number	Course Title	Credits
MATH 159	Differential Equations	4
CIEG 302	Dynamics	3
MEEG 204	Solid Mechanics	3
MEEG 206	Solid Mechanics Lab	1
EECE 310	Principles of Electronics	2
MEEG 209	Materials Science	3
Total Credits		16

FALL SEMESTER 3

Number	Course Title	Credits
MEEG 304	Thermodynamics	3
MEEG 307	Fluid Mechanics	3
MEEG 310	Mechanical Design I	3
MEEG 319	Manufacturing	3
MATH 189	Probability and Statistics	3
Total Credits		15

SPRING SEMESTER 3

Number	Course Title	Credits
MEEG 301	Systems Dynamics	3
MEEG 306	Applied Thermodynamics	3
MEEG 311	Mechanical Design II	3
MEEG 316	Instrumentation and Experimentation	2
MEEG 320	Fluid Mechanics II	3
MEEG 350	Computer Aided Engineering	3
Total Credits		17

FALL SEMESTER 4

Number	Course Title	Credits
MEEG 403	Heat Transfer	3
MEEG 423	Thermal/Fluid Science Lab	1
MEEG 441	Senior Project I	3
MEEG--	Technical Elective	3
--	Afro American Studies Course	3
Total Credits		13

SPRING SEMESTER 4

Number	Course Title	Credits
--	Free Elective	3
--	Social Science/Humanities Elective	3
MEEG 442	Senior Project II	3
MEEG--	Technical Elective	3
Total Credits		12

Total Credits: 120

More Information :

The 4-Year Advising Scheme is a guide for students to successfully complete the program in four years of study. It is not a substitution for academic advising. Students are expected to check-in with their academic advisor every semester.

The prerequisite structure for courses and technical elective options are available in the program handbook.

Courses may not be offered in semesters in which they do not appear listed on the scheme.

DEPARTMENT OF MECHANICAL ENGINEERING

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