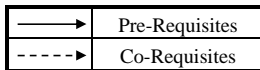
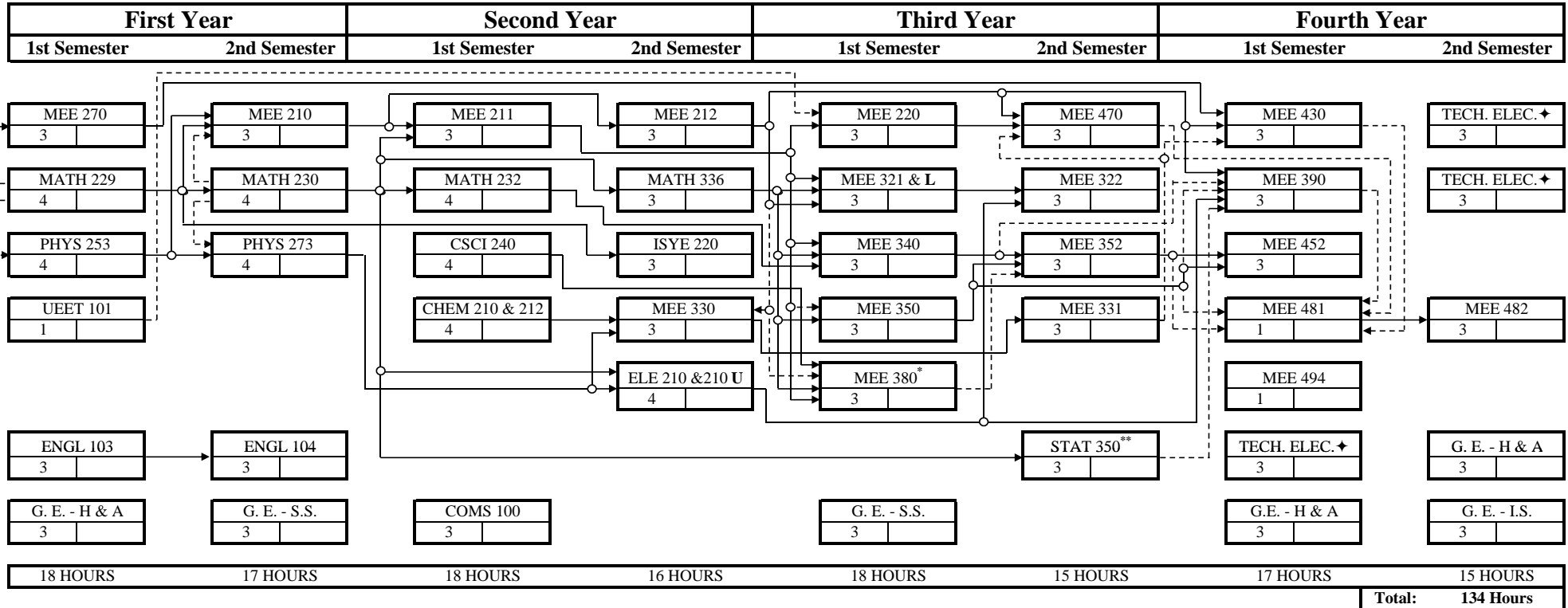


NIU 4-year Study Plan For Mechanical Engineering (Effective Fall 2011)

Name: _____



G. E.	General Education
H & A	Humanities & Arts
S.S.	Social Sciences
I.S.	Interdisciplinary Studies
L	Sign Up For Associated Lab

The university general education requirements can be met by completing 9 hours in the humanities and arts, 6 hours in social sciences, and 3 hours of interdisciplinary studies. Select course work from the general education requirements in the 2011-2012 Undergraduate Catalog. Of the 18 hours, do not take more than 9 hours in any one department.

HUMANITIES AND ARTS (3 Courses)

College	Dept.	Course #	Title	Hours
LA & S				
V & PA				

At least one course must be taken in the College of Liberal Arts & Sciences and at least one course must be taken in the College of Visual & Performing Arts, with no more than 6 hours in any one department

SOCIAL SCIENCES (2 Courses)

Dept.	Course #	Title	Hours

INTERDISCIPLINARY STUDIES (1 Course)

Dept.	Course #	Title	Hours

Options

*	MEE 381 can be taken in lieu of MEE 380
**	ISYE 335 can be taken in lieu of STAT 350

TECHNICAL ELECTIVES (3 Courses)

Dept.	Course #	Title	Hours

Group A: MEE 351, 410, 421, 422, 423, 424, 425, 426, 431, 451, 453, 480, 484, or MEE 490

Choose One: ISYE 430, 431, 439, 450, 451, TECH 344 or 345

† Tech. electives are not offered every semester. They should be taken whenever they are available.

Northern Illinois University
Department Of Mechanical Engineering
Suggested Four-Year Degree Plan for BSME
2011-2012 Undergraduate Catalog

FRESHMAN YEAR

FIRST SEMESTER		Hrs.	SECOND SEMESTER		Hrs.
ENGL 103	Rhetoric and Composition I	3	ENGL 104	Rhetoric and Composition II	3
MATH 229 ¹	Calculus I	4	MATH 230	Calculus II	4
PHYS 253	Fundamentals of Physics I	4	PHYS 273	Fundamentals of Physics II	4
PHYS 253U	General Physics I Lab	0	PHYS 273U	General Physics II Lab	0
UEET 101	Intro. to Engineering	1	MEE 210	Engineering Mechanics I	3
MEE 270	Engineering Graphics	3	G. E. ²	Social Science	3
G. E. ²	Humanities & Arts	3			
Total Hours: 18			Total Hours: 17		

SOPHOMORE YEAR

FIRST SEMESTER		Hrs.	SECOND SEMESTER		Hrs.
MATH 232	Calculus III	4	MATH 336	Ordinary Differential Equations	3
CHEM 210 ¹	General Chemistry I	3	MEE 212	Strengths of Materials	3
CHEM 212	General Chemistry I Lab	1	MEE 330	Materials Science	3
CSCI 240	Computer Programming: C++	4	ELE 210	Engineering Circuit Analysis	3
MEE 211	Engineering Mechanics II	3	ELE 210U	Circuit Analysis Laboratory	1
COMS 100	Fundamentals of Oral Communication	3	ISYE 220	Engineering Economy	3
Total Hours: 18			Total Hours: 16		

JUNIOR YEAR

FIRST SEMESTER		Hrs.	SECOND SEMESTER		Hrs.
MEE 220	Mechanism Design	3	MEE 322	Dynamic Systems & Control I	3
MEE 321	Mechanical Vibrations I	3	MEE 331	Manufacturing Processes	3
MEE 340	Fluid Mechanics	3	MEE 352	Heat Transfer	3
MEE 350	Engineering Thermodynamics	3	MEE 470	Design of Machine Elements	3
MEE 380*	Computational Methods in Engineering Design	3	STAT 350**	Intro. to Probability & Statistics	3
G. E. ²	Social Science	3			
Total Hours: 18			Total Hours: 15		

SENIOR YEAR

FIRST SEMESTER		Hrs.	SECOND SEMESTER		Hrs.
MEE 390	Experimental Methods in ME I	3	MEE 482	Senior ME Design Project	3
MEE 430	Computer Aided Design & Manufacturing	3	TECH. ELEC. ³ ♦	Technical Elective	3
MEE 452	Design of Thermal Systems	3	TECH. ELEC. ³ ♦	Technical Elective	3
MEE 481	Engineering Design Seminar	1	G. E. ²	Humanities & Arts	3
MEE 494	Mechanical Engineering Competency	1	G. E. ²	Interdisciplinary Studies	3
TECH. ELEC. ³ ♦	Technical Elective	3			
G. E. ²	Humanities from LA&S or V&PA	3			
Total Hours: 17			Total Hours: 15		

Options

*	MEE 381 can be taken in lieu of MEE 380
**	ISYE 335 can be taken in lieu of STAT 350

¹ Need Placement Examination

² Your Advisor Must Approve Your General Education Courses.

³ A total of three electives with at least two from Group A.

Group A: MEE 351, 410, 421, 422, 423, 424, 425, 426, 431, 451, 453, 480, 484, or 490

Group B: ISYE 430, 431, 439, 450, 451, TECH 344 or 345

♦ Tech. electives are not offered every semester. They should be taken whenever they are available.