

THE UNIVERSITY OF NORTH DAKOTA
SCHOOL OF ENGINEERING AND MINES
DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT _____
NAID # _____
DATE OF GRADUATION _____

TRANSFERRED FROM _____
DATE OF ADMISSION _____
OVERALL GPA _____

		Min T/C	Hrs	Gr
		Hrs.	Rec	
MATH	165 Calculus I	4	_____	_____
CHEM	121 General Chemistry I	3	_____	_____
CHEM	121L Gen Chem Lab I	1	_____	_____
ENGL	110 College Comp I	3	_____	_____
ME	101 Intro to Mechanical Engr	3	_____	_____
_____	_____ Arts & Humanities	3	_____	_____
		17		

		Min T/C	Hrs	Gr
		Hrs.	Rec.	
MATH	166 Calculus II	4	_____	_____
PHYS	251 University Physics I	3	_____	_____
PHYS	251L University Physics Lab I	1	_____	_____
ENGR	200 Computer Applications in Engr	2	_____	_____
_____	_____ Arts & Humanities	3	_____	_____
ENGL	125 Intro to Professional Writing	3	_____	_____
ENGL	120 College Comp II	3	_____	_____
		16		

FRESHMAN

MATH	265 Calculus III	4	_____	_____
PHYS	252 University Physics II	3	_____	_____
PHYS	252L University Physics II Lab	1	_____	_____
ENGR	201 Statics	3	_____	_____
Econ	201 Microeconomics	3	_____	_____
EE	206 Circuit Analysis	3	_____	_____
ME	201 Student Design	1	_____	_____
		18		

MATH	266 Intro Differential Equations	3	_____	_____
PHYS	253 University Phys III &			
PHYS	253L University Phys III Lab	3	_____	_____
CHEM	122 General Chem &	1	_____	_____
CHEM	122L General Chem Lab	3	_____	_____
ME	341 Thermodynamics	3	_____	_____
ENGR	203 Mechanics of Materials	3	_____	_____
ENGR	202 Dynamics	3	_____	_____
		16		

SOPHOMORE

ADMISSION TO MECHANICAL ENGINEERING DEGREE PROGRAM

ME	306 Fluid Mechanics	3	_____	_____
ME	301 Materials Science	3	_____	_____
ME	322 Kinematics & Dynamics of Machines	3	_____	_____
Engr	460 Engineering Economy	3	_____	_____
Technical Elective		3	_____	_____
		15		

JUNIOR

ME	474 Heat and Mass Transfer	3	_____	_____
ME	323 Mech Component Design	3	_____	_____
ME	323L Mech Component Design Lab	1	_____	_____
_____	_____ Social Sciences	3	_____	_____
Math	321 Applied Statistical Methods	3	_____	_____
Technical Elective		3	_____	_____
		16		

SENIOR

ME	418C Manufacturing Processes	3	_____	_____
ME	418L Manufacturing Processes Lab	1	_____	_____
ME	487 Engineering Design	2	_____	_____
ME	480 Mech Engr Seminar	3	_____	_____
ME	483 Mech Measurements Lab	3	_____	_____
Technical Elective		3	_____	_____
		15		

_____	_____ Social Science	3	_____	_____
Ethics	* See Note Below	3	_____	_____
Technical Elective		3	_____	_____
Technical Elective		3	_____	_____
		15		

* Ethics can be chosen from ChE 493A or Phil 370

Thermal Science

Take at least one or three for concentration.

ME 342	Intermediate Thermodynamics
ME 446	Gas Turbines
ME 449	Internal Combustion Engines
ME 451	Heating and Air Conditioning
ME 464	Computational Fluid Dynamics
ME 476	Intermediate Fluid Mechanics
ME 477	Compressible Fluid Flow
ME 4XX	Energy Management
ME 4XX	Thermal Systems Design
ME 545	Fluidized-Bed Combustion Engineering
ME 574	Advanced Heat Transfer
ME 5XX	Convective Heat Transfer

Manufacturing and Materials

Take at least one or three for concentration.

ME 313	Materials Properties and Selection
ME 416	Advanced Manufacturing Processes
ME 514	Processing of Advanced Materials
ME 5XX	Deformation Fracture of Engineering Materials
ME 5XX	Process Equipment and Machinery Control

Total Credits (128) _____

GPA of all ChE, CE, EE, ME,
ENGR courses (at least 2.0 GPA) _____

Technical Electives must be chosen from the following
Three groups as stated below:
An ME 490 or ME 590 may also be included in the respective groups
at the discretion of the Mechanical Engineering Chair.

Mechanical Design

Take at least one or three for concentration.

ME 324	System, Dynamics and Controls
ME 426	Mechanical Vibration
ME 429	Intro to Finite Element Analysis
ME 523	Advanced Machine Design
ME 526	Advanced Vibrations
ME 529	Advanced Finite Element Methods
ME 532	Advanced Dynamics
ME 5XX	Engineering Noise Control

ME	488 Engineering Design	3	_____	_____
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