

Mechanical Engineering Student Status Sheet (AY 2018-19)

STUDENT NAME _____ Student ID # _____

MATH

Course	Num	Title	Hrs	Sem	Grd
MATH	123 **	Calculus I	4		
MATH	125 **	Calculus II	4		
MATH	225	Calculus III	4		
MATH	321	Differential Equations	3		
MATH	373	Intr. To Num. Analysis	3		
MATH	381	Intr. To Prob. & Stat.	3		
Total			21		

BASIC SCIENCES

Course	Num	Title	Hrs	Sem	Grd
CHEM	112	General Chemistry I	3		
CHEM	112L	General Chemistry I L	1		
PHYS	211	University Physics I	3		
PHYS	213	University Physics II	3		
PHYS	213L	University Physics II L	1		
Total			11		

SOCIAL SCIENCE (6 hours required)

Course	Num	Title	Hrs	Sem	Grd
Total			6		

HUMANITIES (6 hours required)

Course	Num	Title	Hrs	Sem	Grd
Total			6		

Three additional credit hours from either SS or HUM must be at the upper level (3xx/4xx)

Course	Num	Title	Hrs	Sem	Grd
Total			3		

General Requirements Outside the Department

Course	Num	Title	Hrs	Sem	Grd
IENG	301	Basic Eng. Econ.	2		
ENGL	101	Composition I	3		
ENGL	279	Tech. Com. I	3		
ENGL	289	Tech. Com II	3		
MET	231	Struct. & Prop. Mat. Lab	1		
MET	232	Prop. of Mat.	3		
EE	301	Intro Circ, Mach, & Sys.	3-1		
CSC	170	Prog. for Eng. and Sci.	2-1		
Total			22		

MECHANICAL ENGINEERING COURSES ♦

Course	Num	Title	Hrs	Sem	Grd
ME	110	Intro. to Mech. Engr.	2		
ME	126L	Prod. Design/Develp	2		
ME	210 **	Statics of Mechanisms	3		
ME	211 **	Intro. to Thermodyn.	3		
ME	216 **	Intro. to Solid Mech.	3		
ME	221 **	Dyn.of Mechanisms	3		
ME	264/L	Electromech. Prod Dev.	4		

OR

ME	265/L	Sys. Eng. Prod. Dev.	4		
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OR

ME	269/L	Energy Sys. Prod Dev.	4		
ME	312	Thermodynamics II	3		
ME	313	Heat Transfer	3		
ME	316	Solid Mechanics	3		
ME	322	Machine Design I	3		
ME	331	Thermo Fluid Dyn.	3		
ME	351	Mechatronics Meas Sys.	3-1		
ME	352	Intro.to Dyn. Sys.	3		
ME	477	Mech. Eng. Design I	2		
ME	479	Mech. Eng. Design II	2		
ME	481	Adv. Prod. Dev. I	1		
ME	482	Adv. Prod. Dev. II	1		
Total			48		

**A minimum grade of C is required in this course as a prerequisite for 1 or more subsequent required courses.

SENIOR ELECTIVE COURSES ♦

Course	Num	Title	Hrs	Sem	Grd
ME			3		
ME			3		
ME			3		
ME			3-1		
Total			13		

♦One of the first three (3 credit) ME electives listed above may be substituted by any of the following:

- 3 credit hours of CO-OP upon approval of the Department CO-OP Coordinator and academic advisor; OR
- 3 credit hours of ME 5XX/6XX for students on the accelerated graduate path; OR
- 3 credit hours of ROTC upon commission as an Officer in the U.S. Army; OR
- 3 credit hours of a Technical Elective (any 3XX/4XX engineering, math, or science course), subject to approval of the academic advisor and the department head; OR
- 3 credit hours from EPICS (1 credit of GE/IS 283/483 and 2 credits of GE/IS 284/484) upon approval of the academic advisor.

Baccalaureate General Education Curriculum Requirements Students Entering Fall 2005 or Later

GOAL #1: Students will write effectively and responsibly and will understand and interpret the written expression of others. (6 credits)

ANTH/SOC 211	Social Science Writing	3 hrs	ENGL 279	Technical Communications I	3 hrs
CJUS 202	Writing & Research in Criminal Justice	3 hrs	ENGL 289	Technical Communications II	3 hrs
ENGL 101	Composition I	3 hrs	ENGL 283	Introduction to Creative Writing	3 hrs
ENGL 201	Composition II	3 hrs	POLS 202	Writing & Research in Political Science	3 hrs
ENGL 205	Business Writing	3 hrs	UHON 110	Honors English	3 hrs
ENGL 284	Introduction to Criticism	3 hrs	UHON 211	Honors Interdisciplinary Civilizations II	3 hrs
ENGL 277	Tech Writing in Engineering	3 hrs			

GOAL #2: Students will communicate effectively and responsibly through listening and speaking. (3 credits)

ENGL 279	Technical Communications I	3 hrs	SPCM 215	Public Speaking	3 hrs
ENGL 289	Technical Communications II	3 hrs	SPCM 222	Argumentation and Debate	3 hrs
SPCM 101	Fundamentals of Speech	3 hrs	UHON 101	Honors Speech Communication	3 hrs

GOAL #3: Students will understand the organization, potential, and diversity of the human community through study of the social sciences. (6 credits, in 2 disciplines or course prefixes)

ABS 203	Global Food Systems	3 hrs	INFO 102	Social and Ethical Aspects of	3 hrs
AIS/HIST 257	Early Amer Indian Hist &	3 hrs	NATV 110	The Native Studies Discipline	3 hrs
ANTH 210	Cultural Anthropology	3 hrs	POLS 100	American Government	3 hrs
ANTH 220	Physical Anthropology	3 hrs	POLS 102	American Political Issues	3 hrs
ANTH 230	Intro to Archaeology	3 hrs	POLS 141	Governments of the World	3 hrs
CJUS 201	Intro to Criminal Justice	3 hrs	POLS 165	Political Ideologies	3 hrs
ECON 201	Prin of Microeconomics	3 hrs	POLS 210	State & Local Government	3 hrs
ECON 202	Prin of Macroeconomics	3 hrs	POLS 250	World Politics	3 hrs
GEOG 101	Intro to Geography	3 hrs	POLS 253	Current World Problems	3 hrs
GEOG 200	Intro to Human Geog	3 hrs	PSYC 101	General Psychology	3 hrs
GEOG 210	World Regional Geog	3 hrs	REL 237	Religion in American Culture	3 hrs
GEOG 212	Geog of North America	3 hrs	SOC 100	Intro to Sociology	3 hrs
GEOG 219	Geog of South Dakota	3 hrs	SOC 150	Social Problems	3 hrs
GLST 201	Global Studies I	3 hrs	SOC 240	Sociology of Rural America	3 hrs
HDFS 141	Individual and the Family	3 hrs	SOC 250	Courtship & Marriage	3 hrs
HDFS/ EPSY 210	Lifespan Development	3 hrs	SOC 285	Society and Technology	3 hrs
HIST 151	US History I	3 hrs	SUST 201	Sustainability and Society	3 hrs
HIST 152	US History II	3 hrs	UHON 111	Ideas in History	3 hrs
HIST 256	World History	3 hrs	UHON 210	Interdisciplinary Civilizations I	3 hrs
INED 211	SD American Indian Cult/Edu	3 hrs	WMST 101	Intro to Women's Studies	3 hrs

GOAL #4: Students will understand the diversity and complexity of the human experience through study of the arts and humanities. (6 credits: in 2 disciplines or course prefixes or a sequence of a foreign language) ART/ARTH are considered the same prefix.

ARAB 101/102	Intro to Arabic I/II	4/4 hrs	HIST 112	World Civilization II	3 hrs
ARCH 241	Building History i	3 hrs	HIST 121	Western Civilization I	3 hrs
ART 111	Drawing I	3 hrs	HIST 122	Western Civilization II	3 hrs
ART 112	Drawing II	3 hrs	HUM 100	Intro to Humanities	3 hrs
ART 121	Design I	3 hrs	HUM 200	Connections	3 hrs
ART 123	Three Dimensional Des	3 hrs	LAKL/AIS 101/102	Intro Lakota I/II	4/4 hrs
ARTH 100	Art Appreciation	3 hrs	LAKL 201/202	Intermediate Lakota I/II	3/3 hrs
ARTH 120	Film as Art	3 hrs	LATI 101	Elementary Latin	4 hrs
ARTH 121	Intro to the Visual Arts	3 hrs	LATI 102	Adv Elementary Latin	4 hrs
ARTH 211	History of World Art I	3 hrs	MCOM 151	Intro to Mass Communications	2-3 hrs
ARTH 212	History of World Art II	3 hrs	MCOM 160	Introduction to Film	3 hrs
ARTH 231	Survey of Art, Music, Theatre	3 hrs	MFL 101/102	Intro to Foreign Lang & Cult I/II	4/4 hrs
ARTH/AIS 251	Amer Indian Art Hist	3 hrs	MUS/ANTH 240	Music Cultures of the World	3 hrs
CHIN 101/102	Intro Chinese I/II	4/4 hrs	MUS 100	Music Appreciation	3 hrs
ENGL 115	Amer Indian Oral Lit	3 hrs	MUS 117	Music in Performance	1 hr
ENGL 125	Introduction to Peace and	3 hrs	MUS 130	Music Lit & History I	2 hrs
ENGL 210	Intro to Literature	3 hrs	MUS 131	Music Lit & History II	3 hrs
ENGL 211	World Literature I	3 hrs	MUS 200	American Music	3 hrs
ENGL 212	World Literature II	3 hrs	MUS 201	History of Country Music	3 hrs
ENGL 214	Amer Indian Literature	3 hrs	MUS 203	Blues, Jazz and Rock	3 hrs
ENGL 221	British Literature I	3 hrs	PHIL 100	Intro to Philosophy	3 hrs
ENGL 222	British Literature II	3 hrs	PHIL 200	Intro to Logic	3 hrs
ENGL 230	Lit for Younger Readers	3 hrs	PHIL 215	Intro to Social/Political Phil	3 hrs
ENGL 240	Juvenile Literature	3 hrs	PHIL 220	Intro to Ethics	3 hrs
ENGL 241	American Literature I	3 hrs	PHIL 233	Philosophy and Literature	3 hrs
ENGL 242	American Literature II	3 hrs	PHIL 270	Philosophy of Religion	3 hrs
ENGL/WMST 248	Women in Literature	3 hrs	REL 213	Intro to Religion	3 hrs
ENGL 249	Lit of Diverse Cultures	3 hrs	REL 224	Old Testament	3 hrs
ENGL 250	Science Fiction	3 hrs	REL 225	New Testament	3 hrs
ENGL 256	Lit of the American West	3 hrs	REL 238	Native American Religions	3 hrs
ENGL 258	Literature and Culture	3 hrs	REL 250	World Religions	3 hrs
ENGL 268	Literature	3 hrs	RUSS 101/102	Intro to Russian I/II	4/4 hrs
FREN 101/102	Intro French I/II	4/4 hrs	SPAN 101/102	Intro to Spanish I/II	4/4 hrs
FREN 201/202	Intermediate French I/II	4/4 hrs	SPAN 201/202	Intermediate Spanish I/II	3/3 hrs
GER 101/102	Intro German I/II	4/4 hrs	THEA 100	Introduction to Theatre	3 hrs
GER 201/202	Intermediate German I/II	4/4 hrs	THEA 131	Introduction to Acting	3 hrs
GFA 101	Intro to Fine Arts	3 hrs	THEA 200	Theatre History	3 hrs
GREE 101	Elementary Greek	4 hrs	THEA 201	Film Appreciation	3 hrs
GREE 102	Adv Elementary Greek	4 hrs	THEA 231	Acting I	3 hrs
HIST 111	World Civilization I	3 hrs			

GOAL #5: Students will understand and apply fundamental mathematical processes and reasoning. (3 credits)

MATH 102/102L	College Algebra/Lab	4 hrs	MATH 125	Calculus II	4 hrs
MATH 115	Precalculus	5 hrs	MATH 225	Calculus III	4 hrs
MATH 120	Trigonometry	3 hrs	MATH/STAT 281	Statistics	3 hrs
MATH 123	Calculus I	4 hrs			

GOAL #6: Students will understand the fundamental principles of the natural sciences and apply scientific methods of inquiry to investigate the natural world. (6 credits) Must include a lab so typically a minimum of 7 credits.

BIOL 151/151L	General Biology I/Lab	3/1 hrs	GEOL 201/201L	Physical Geology/Lab	3/1 hrs
BIOL 153/153L	General Biology II/Lab	3/1 hrs	PHYS 111/111L	Introduction to Physics I/Lab	3/1 hrs
CHEM 106/106L	Chemistry Survey/Lab	3/1 hrs	PHYS 113/113L	Introduction to Physics II/Lab	3/1 hrs
CHEM 108/108L	Organic & Biochem/Lab	4/1 hrs	PHYS 211	University Physics I	3 hrs
CHEM 112/112L	General Chemistry I/lab	3/1 hrs	PHYS 213/213L	University Physics II/Lab	3/1 hrs
CHEM 114/114L	General Chemistry II/Lab	3/1 hrs			

GOAL #7: Students will recognize when information is needed and have the ability to locate, organize, critically evaluate, and effectively use information from a variety of sources with intellectual integrity. Students meet this requirement with GOAL 1 and GOAL 2.