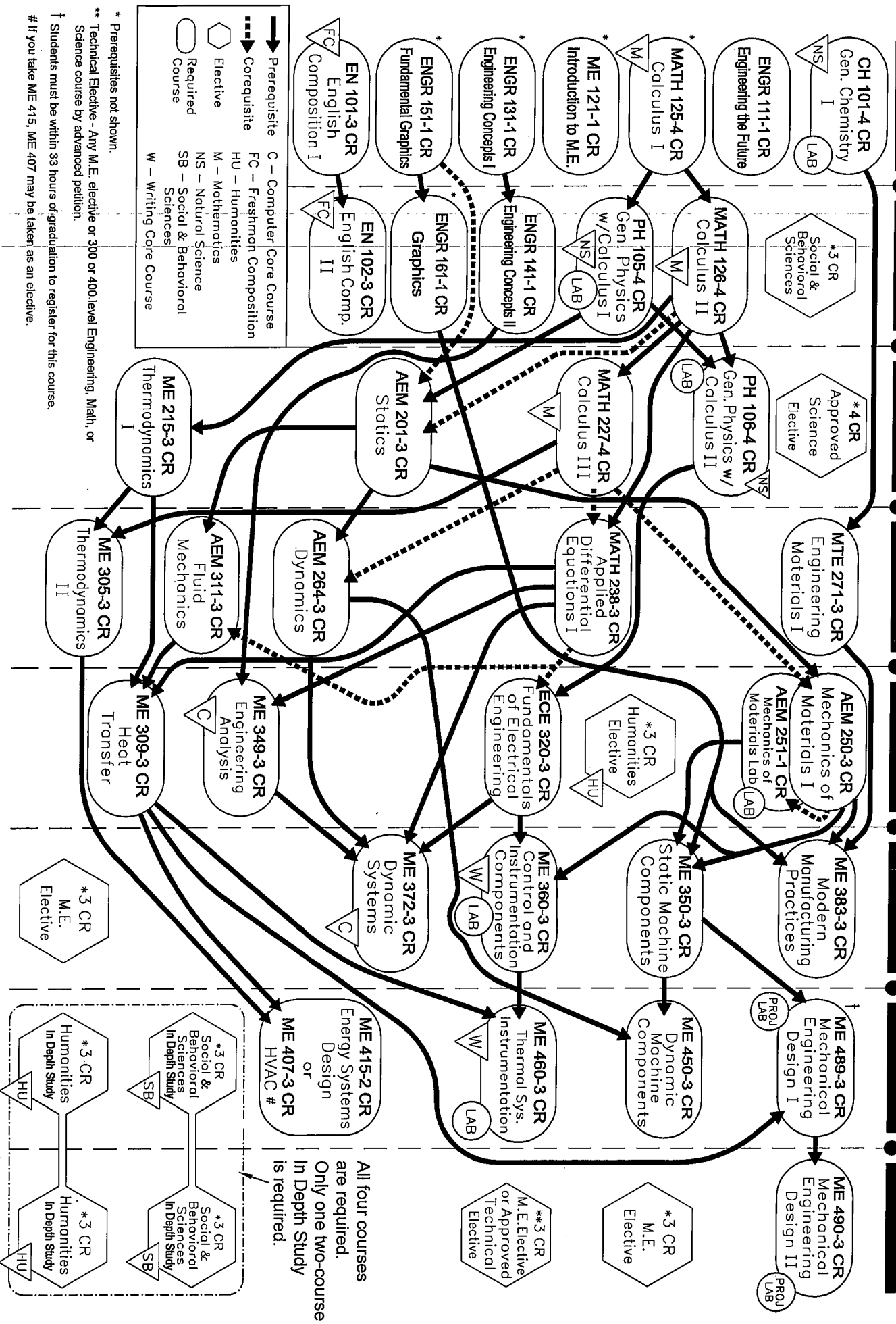


Student Name _____
 Student No. _____

THE UNIVERSITY OF ALABAMA
 CURRICULUM FOR MECHANICAL ENGINEERING
 128 SEMESTER HOURS SPRING 2011

Freshman I-15 CR Freshman II-16 CR 31 Sophomore I-18 CR Sophomore II-15 CR 64 Junior I-16 CR Junior II-15 CR 95 Senior I-18 CR Senior II-15 CR 128



→ Prerequisite
 - - - Corequisite
 ○ Elective
 ○ Required Course
 W - Writing Core Course

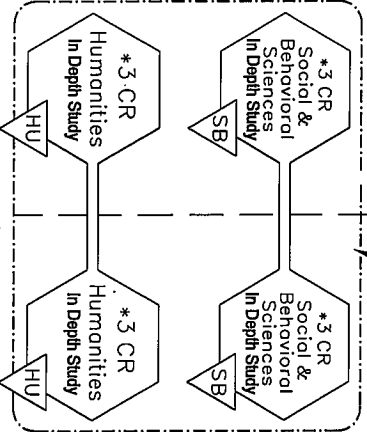
* Prerequisites not shown.

** Technical Elective - Any M.E. elective or 300 or 400 level Engineering, Math, or Science course by advanced petition.

† Students must be within 33 hours of graduation to register for this course.

If you take ME 415, ME 407 be taken as an elective.

All four courses are required. Only one two-course In Depth Study is required.



POLICY ON ME ELECTIVES

Each student may select any two ME electives to satisfy the requirements of ME elective courses. The technical elective requirement may be satisfied with an additional ME elective or a 300-400 level engineering, math, or science course by prior petition.

POLICY ON HUMANITIES AND SOCIAL SCIENCE ELECTIVES

Students must satisfy College of Engineering Core curriculum requirements. These include 9 semester hours of humanities (HU), literature (L), and arts (FA) courses. Nine semester hours are also required in history (HI) and social and behavioral sciences (SB). Six of these 18 semester hours must be from a single discipline (Depth Study). There is no mandatory requirement of literature or fine arts in mechanical engineering.

ENGINEERING REGISTRATION AS A PROFESSIONAL ENGINEER

Engineering is a profession requiring state registration to become a "Professional Engineer." The first step towards becoming registered is passing the Fundamentals of Engineering Exam. Students are strongly encouraged to pass the Fundamentals of Engineering Exam before they graduate.

APPROVED MATH/SCIENCE ELECTIVE COURSES

Science Electives	Prerequisites
AY 101 and 102	None required
AY 203 and 204	None required
BSC 108	None required
BSC 114 and 115	None required
BSC 118	Co-Req CH 101 or CH 117
CH 102	CH 101
CH 118	CH 117
GEO 101	None required
GEO 102	None required
GEO 105	None required
GY 101	None required
GY 102	None required
PH 253 and 255	PH 106

MECHANICAL ENGINEERING ELECTIVE COURSES

ME Electives	Prerequisites
ME 308	ME 305
ME 313	ME 215, AEM 311
ME 321	CS 114, IE 203
ME 364	AEM 264
ME 377	MATH 238, PH 106
ME 406	ME 305
ME 407	ME 305 and ME 309
ME 409	Either ME 309, AEM 311, ME 349 Or CHE 253, CHE 306
ME 411	Either ME 309, AEM 311 Or MTE 353
ME 416	ME 305, ME 309, & Either ECE 320 or ECE 225
ME 417	ME 215
ME 418	ME 305
ME 420	GES 257
ME 421	GES 255
ME 425	GES 255
ME 426	GES 257 or GES 400
ME 441	MATH 238, PH 106, & Either AEM 201 or AEM 361
ME 464	GES 257, IE 203
ME 465	ME 372
ME 466	IE 364, IE 321
ME 469	GES 255 or GES 500
ME 470	ME 372, AEM 250
ME 471	MATH 238, PH 106, & Either ECE 320 or ECE 225
ME 475	ME 372, ME 349
ME 476	ME 372, ME 475
ME 484	Either ME 350, CE 330, AEM 341 Or Graduate Standing
ME 485	AEM 250 and (ENGR 161, DR 125, or DR 133)

MECHANICAL ENGINEERING APPROVED TECHNICAL ELECTIVES

College of Engineering	College of Arts & Sciences
AEM 313, 314, 341, 420, 454, 469, 480	Astronomy (AY) 401, 421, 433
CHE 464	Biological Sciences (BSC) 300, 310, 311
CE 331, 425	Chemistry (CH) 231, 232
ECE 326, 340, 350, 370, 380	Math 237, 301, 307, 343, 355, 428, 485
GES 400, 411, 451	Physics (PH) 333, 471
All ME elective courses (one course cannot serve as both an ME and a technical elective)	
MTE 412, 439, 455, 487	

**THE UNIVERSITY OF ALABAMA COLLEGE OF
ENGINEERING CORE CURRICULUM-GENERAL
EDUCATION REQUIREMENTS**

Applicable to students who begin their college careers fall
1998 and after

To achieve a general education while pursuing a specific degree program in the College of Engineering, each undergraduate student enrolled in the college will construct a curriculum that includes course work in the following areas:

1. Six semester hours of written composition (**FC**).
2. Six semester hours in 300-and 400-level courses, preferably in the student's major, approved for the writing (**W**) designation. The (**W**) designation indicates that one of the conditions for a passing grade is that students write coherent, logical, and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before mid-semester. All (**W**) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (**W**) requirement must be satisfied with courses taken on this campus.
3. Nine semester hours of humanities, literature, and fine arts (**HU, L, & FA**) area courses, six semester hours are required in a discipline (EH, PHL, for example). A six-hour depth (or sequence) study is required and may be taken in either **HU, L, & FA** or **HI & SB**. There are no mandatory general education requirements for literature or fine arts except as required for a specific engineering program.
4. Nine semester hours of courses in the areas of history and social and behavioral sciences (**HI & SB**), to include six semester hours in a discipline (HY, EC, for example). A six-hour depth study is required and may be taken in either **HU, L, & FA** or **HI & SB**. History may be included in depth courses.
5. Twelve semester hours of natural sciences (**N**) and mathematics (**MA**) area courses to include eight semester hours of calculus-based physics, including two hours of laboratory; and mathematics at the MATH 125 level and higher.
6. Either six hours of foreign language (**FL**) or computer (**C**) are required in addition to the humanities requirement. **FL** can count as **HU** credit if six hours of **C** courses are earned.
7. Pre-professional, major, and/or elective courses applicable to the student's declared major program of study. Students are to consult with their major department/program area for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example: if a course carries a designation for both foreign language (**FL**) and humanities (**HU**), it may only be used to satisfy one of the requirements. An additional course or courses must be completed to satisfy the remaining requirement.

**History (HI) and
Behavioral Sciences (SB)**

AMS	155	Freshman Seminar	SB
ANT	100	Introduction to Anthropology	SB
ANT	102	General Anthropology II	SB
ANT	103	Great Discoveries in Archaeology	SB
ANT	155	Freshman Seminar	SB
BUI	102	Foundation: Possibilities	SB
COM	101	Principles of Human Communication	SB
COM	220	Fundamentals of Interpersonal Communication	SB
CS	155	Freshman Seminar	SB
EC	155	Freshman Seminar	SB
EC	110	Principles of Microeconomics	SB
EC	111	Principles of Macroeconomics	SB
GY	105	World Regional Geography	SB
GY	110	Principles of Human Geography	SB
GY	155	Freshman Seminar	SB
HD	101	Life Span Human Development	SB
HD	155	Freshman Seminar	SB
HY	101	Western Civilization to 1648	HI
HY	102	Western Civilization since 1648	HI
HY	105	Honors Western Civilization to 1648	HI
HY	106	Honors Western Civilization since 1648	HI
HY	203	American Civilization to 1865	HI
HY	204	American Civilization since 1865	HI
HY	205	Honors American Civilization to 1865	HI
HY	206	Honors American Civilization since 1865	HI
IHP	105	Culture and Human Experience	SB
IHP	155	Freshman Seminar	SB
NEW	237	Social Science I – (Civic Effectiveness)	SB
NEW	238	Honors Social Science I	SB
NEW	273	Social Science I - (Ethics and Issues)	SB
NHM	155	Freshman Seminar	SB
NUR	155	Freshman Seminar	SB
PSC	101	Introduction to American Politics	SB
PSC	155	Freshman Seminar	SB
PY	101	Introduction to Psychology	SB
PY	105	Honors Intro to Psychology	SB
RHM	155	Freshman Seminar	SB
SOC	101	Introduction to Sociology	SB
SOC	202	Analysis of Social Problems	SB
SS	121	Introduction to Social Studies	SB
SW	155	Freshman Seminar	SB

Humanities (HU), Literature (L) and Fine Arts (FA)

AMS	150	Introduction to American Culture	HU
AMS	151	Contemporary America	HU
AMS	203	Southern Lives	HU
AMS	204	Western American Lives	HU
AMS	205	Working Lives	HU
AMS	206	American Character	HU
AMS	231	Contemporary American	HU
ARH	151	Introduction to the Visual Arts	FA
ARH	252	Survey of Western Art I	FA
ARH	253	Survey of Western Art II	FA
ARH	254	Survey of Asian Art	FA
ART	155	Freshman Seminar	FA
BUI	101	Foundation: Origins	HU
CHI	101	Elementary Chinese I	HU
CHI	102	Elementary Chinese II	HU
CHI	201	Intermediate Chinese I	HU
CHI	202	Intermediate Chinese II	HU
CL	222	Greek and Roman Mythology	HU
COM	100	Rhetoric and Society	HU
COM	121	Honors Critical Decision Making	HU
COM	122	Critical Decision Making	HU
COM	123	Public Speaking	HU
COM	155	Freshman Seminar	HU
COM	210	Oral Interpretation of Literature	HU
EN	155	Freshman Seminar	FA
EN	205	English Literature I	HU or L
EN	206	English Literature II	HU or L
EN	207	World Literature I	HU or L
EN	208	World Literature II	HU or L
EN	209	American Literature I	HU or L
EN	210	American Literature II	HU or L
EN	215	Honors English Literature I	HU or L
EN	216	Honors English Literature II	HU or L
EN	219	Honors American Literature I	HU or L
EN	220	Honors American Literature II	HU or L
FA	200	Introduction to Fine Arts	FA
FR	101	Introductory French I	HU
FR	102	Introductory French II	HU
FR	103	Intensive Review Intro French I/II	HU
FR	201	Intermediate French I	HU
FR	202	Intermediate French II	HU
GN	101	Elementary German I	HU
GN	102	Elementary German II	HU
GN	103	Accelerated Elementary German	HU
GN	111	Accelerated Elementary German	HU
GN	112	Accelerated Intermediate German	HU
GN	201	Elementary German I	HU
GN	202	Elementary German II	HU
GN	260	The Holocaust in Film and Literature	HU
GN	264	German Literature in Translation I	HU or L
GN	265	German Literature in Translation II	HU or L
GR	101	Introductory Greek I	HU
GR	102	Introductory Greek II	HU
IT	101	Introductory Italian I	HU
IT	102	Introductory Italian II	HU
IT	201	Intermediate Italian I	HU

IT	202	Intermediate Italian II	HU
JA	101	Elementary Japanese I	HU
JA	102	Elementary Japanese II	HU
JA	201	Intermediate Japanese I	HU
JA	202	Intermediate Japanese II	HU
LA	101	Introductory Latin I	HU
LA	102	Introductory Latin II	HU
LA	201	Intermediate Latin Reading I	HU
LA	202	Intermediate Latin Reading II	HU
MUS	121	Introduction to Listening	FA
MUS	250	Music in World Cultures	FA
NEW	155	Freshman Seminar	HU
NEW	211	Humanities I: Perspectives	HU
NEW	212	Humanities I: Creativity	HU/FA
NEW	215	Humanities I: Perspectives in Environ Studies	HU
PHL	100	Introduction to Philosophy	HU
PHL	105	Honors Introduction to Philosophy	HU
PHL	200	Introduction to Ethics	HU
PHL	201	Ancient and Medieval Philosophy	HU
PHL	202	Honors Introductory Ethics	HU
PHL	204	Medical Ethics	HU
PHL	210	Science Technology and Society	HU
PHL	217	Aesthetics	FA
PHL	220	Introduction to Political Philosophy	HU
PHL	251	Renaissance and Modern Philosophy	HU
REL	100	World Religions	HU
REL	101	Western Approaches to the Problem of Evil	HU
REL	105	Honors Introduction to Religious Studies	HU
REL	110	Introduction to the Old Testament	HU
REL	112	Introduction to the New Testament	HU
REL	205	Ethics and Religion	HU
REL	220	Survey of Asian Religions	HU
REL	224	Introduction to Judaism	HU
REL	225	Survey of Western Religions	HU
RUS	101	Elementary Russian I	HU
RUS	102	Elementary Russian II	HU
RUS	111	Accelerated Elementary Russian	HU
RUS	112	Accelerated Intermediate Russian	HU
RUS	201	Intermediate Russian I	HU
RUS	202	Intermediate Russian II	HU
SP	101	Introductory Spanish I	HU
SP	102	Introductory Spanish II	HU
SP	103	Spanish First Year Review	HU
SP	201	Intermediate Spanish I	HU
SP	202	Intermediate Spanish II	HU
TCF	112	Motion Picture History and Criticism	HU
TH	114	Introduction to Theatre	FA
UH	101	Survey: Values and Society	HU
UH	155	Freshman Seminar	HU
UH	201	Survey: Classics and Western Culture	HU
UH	202	Survey: Classics and Eastern Culture	HU
UH	203	Survey: Classic Western Culture II	HU
UH	210	Honors Fine Arts	FA
WL	207	World Literature I	HU or L
WL	208	World Literature II	HU or L
WS	200	Introductory to Women Studies	HU