Computer Engineering Curriculum
(Spring 2006)

Accredited ABET — Engineering Accreditation Commission

Department of Computer Engineering
School of Engineering
Jackson State University

Spring Semester

First Year

MATH 231	Calculus I	4
ENG 104	Composition and Literature	3
HIST 101	History of Civilization	3
UNIV 100	Concepts for Success	2
CSC 118	Programming Fund.	3
CSCL 118	Programming Fund. Lab	1

16

Fall Semester

MATH 232	Calculus II	4
ENG 105	Composition and Literature	3
HIST 102	History of Civilization	3
PHY 211	General Physics I	4
PHYL 211	General Physics I Lab	1

15

Second Year

MATH 233	Calculus III	4
PHY 212	General Physics II	4
PHYL 212	General Physics II Lab	1
EN 252	Engineering Analysis	3
EN 212	Digital Logic	3
ENL 212	Digital Logic Lab	1

16

MATH 368	Ordinary Differential Equation	3
CHEM 141	General Chemistry I	3
CHML 141	General Chemistry I lab	1
EN 222	Eng Mechanics I	3
EN 220	Circuit Theory	3
ENL 220	Circuit Theory Lab	1
CSC 119	Object Oriented Programming	3
CSCL 119	Object Oriented Prog Lab	1

18

Third Year

MATH 307	Prob & Stat for Engineers	3
ENG xxx	English Option	3
CSC 225	Discrete Structure	3
CPE 351	Signals and Systems	3
CPE 312	Computer Organization	3

15

CPE 360	Embedded Microprocessor	3
CPEL 360	Embedded Microproc Lab	1
CSC 228	Data Structures & Algorithms	3
CSCL 228	Data Struct & Algorithms Lab	1
CPE 315	Synthesis with HDL	3
CPE 330	Electronics	3
CPEL 330	Electronics Lab	1

15

Fourth Year

CPE 412	Computer Architecture	3
SPCH xxx	Speech Option	3
CSC 325	Operating Systems	3
PHIL xxx	Philosophy Option	3
CPE 490S	Senior Design Project I	3
EN 355	Engineering Economy	3

18

CPE 491W	Senior Project Design II	3
ART xxx	Fine Arts Option	3
CPE xxx	Technical Elective 1	3
CPE xxx	Technical Elective 2	3
CPE xxx	Technical Elective 3	3

15

Total hours **128**   Grade "C" or better is required for all courses

Technical Electives

CPE 430	Digital VLSI Design.	CPE 431	Digital Systems Testing.
CPE 440	Communications Systems.	CPE 441	Computer Networks.
CPE 451	Digital Signal Processing.	CPE 492	Special Studies in CPE
CPE 493	Special Topics in CPE.		Other courses require Chair's approval.

Students who joined the program in Spring 2006 or after must follow this curriculum.
This curriculum is optional for students who joined the program before 2006.

Speech Options

SPCH 201	Speech Arts
SPCH 300	Introduction to Organization Communication
SPCH 334	Argumentation and Debate
SPCH 355	Persuasion
SPCH 430	Small Group Discussion

Philosophy Options

PHIL 301	Introduction to Philosophy
PHIL 416	Logic
PHIL 208	Aesthetics
PHIL 309	Ethics

Humanities And Fine Arts

ART 206	Art Appreciation
MUS 205	Music Appreciation
DR 201	Introduction to Drama
ENG 201/202	Humanities
ENG 205	World Literature
FR 101/102	Elementary French
FR 201/202	Intermediate French
FR 213	French Phonetic Reading
SP 101/102	Elementary Spanish
SP 201/202	Intermediate Spanish

*Note-students may take the equivalent of any foreign language the University offers.

English Options

ENG 213	Professional Writing
ENG 206	Literature of Science
ENG 205	World Literature

Additional Requirements

ENG 002	Required for students with an ACT English subtest score of 16 or less. Strongly encouraged for students with English subtest score of 19 or less.
MATH 004	Required for students with an ACT Mathematics subtest score of 16 or less. Strongly encouraged for students with Mathematics subtest score of 19 or less.
RE 002	Required for students with an ACT Reading subtest score of 16 or less. Strongly encouraged for students with Reading subtest score of 19 or less.
GNST 101,102	Required for students taking two or more intermediate courses. Students in the Academic Support Program will not be permitted to take more than 15 semester hours, including intermediate courses and the Academic Support Program.

Note: (a) Students who transfer 12 or more hours of college credit are exempt from UNIV 100. (b) Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking Math 231-Calculus I.

Students who joined the program in Spring 2006 or after must follow this curriculum.
This curriculum is optional for students who joined the program before 2006.