Computer Engineering BS
Degree Plan (CEBS)

GEC 08. Speaking-Intensive Requirement (Major Area)
01. CSC 309: Computers and Society 3hr. (SI)

GEC 09. Capstone Requirement (Major Area)
01. CE 430: Senior Design Projects 3hr. (Capstone)
   Must be taken Senior Year; ENG 101 & ENG 102 prerequisites

*This course satisfies both the GEC requirement and a program
requirement for this major.
**This GEC course is recommended by this major.
***This course does not satisfy prerequisites for any other math course.
GEC 06 - GEC 09 courses are specific to the major.
For full description of the GEC, see undergraduate Bulletin.

PROGRAM CURRICULUM

DEG 01. Major Area of Study Requirements (69 hours)
01. CE 101 – Introduction to Computer Engineering 3hr.
02. CE 210 – Digital Logic 3hr.
03. CE 220 – Electric Circuit Analysis 4hr.
04. CE 230 – Computer Systems 3hr.
05. CE 240 – Linear Signals and Systems Analysis 3hr.
06. CE 250 – Mathematical Methods for Engineering 3hr.
07. CE 310 – Digital Electronics 4hr.
08. CE 320 – Embedded System Design 4hr.
09. CE 330 – Analog Electronics 3hr.
12. CE 410 – Fundamentals of Internet of Things 3hr.
13. CE 420 – Computer Networks 3hr.
14. CE 430 – Senior Design Projects 3hr.
15. CE 450 – Wireless and Mobile Networks 3hr.
16. CSC 101– Computer Science I 3hr.
17. CSC 101L – Computer Science I Laboratory 1 hr.
18. CSC 102 – Computer Science II 4hr.
20. CSC 307 – Data Structures and Algorithm Analysis 3hr.
21. CSC 309 – Computers and Society 3hr.
22. CSC 414 – Software Design and Development 3hr.

DEG 02. Additional Requirements (16-32 hours)
01. AEC 390 – Engineering Economics 3hr.
02. CHE 106– General Chemistry I 3hr.*
03. CHE 106L – General Chemistry I Laboratory 1 hr.
04. MAT 167 – Calculus I with Analytic Geometry 3hr.*
05. MAT 168 – Calculus II with Analytic Geometry 3hr.
06. MAT 169 – Calculus III with Analytic Geometry 3hr.
07. MAT 285 – Introduction to Differential Equations 13hr.
08. PHY 201– General Physics I with Calculus 4hr.*
09. PHY 201L – General Physics I with Calculus Laboratory 1 hr.*
10. PHY 202– General Physics II with Calculus 4hr.*
11. PHY 202L – General Physics II with Calculus Laboratory 1 hr.*
12. PHI 171 – Ethics and Good Living 3hr.*

DEG 03. Electives
01. Choose electives as needed with adviser’s approval.
   (4 hrs. minimum)

HOURS TO DEGREE
126 hours are needed to graduate with a BS in Computer Engineering. At least 50 percent of the hours applied to a degree at The University of Southern Mississippi must be earned from a senior college, and 45 of these hours must be in courses numbered 300 or above. The student must earn at least 21 of the last 30 hours of course work and at least 12 hours in the major area of study from Southern Miss. See Residence Hour Requirements for more information.