

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# Computer Engineering Bachelor of Science Program

Program Total is 191 Hours

**I. COMPUTER SCIENCE AND ENGINEERING COURSES (87 HOURS)**

**A. Required Computer Science Courses (19 hours)**

CS 240 Computer Programming I  
CS 241 Computer Programming II  
CS 242 Computer Programming III  
CS 400 Data Structures and Algorithms  
CS 415 Social Implications of Computing

**B. Required Computer Engineering Courses (36 hours)**

CEG 233 Linux and Windows  
CEG 260 Digital Circuits  
CEG 320 Computer Organization  
CEG 360 Digital System Design  
CEG 402 Introduction to Computer Networks  
CEG 433 Operating Systems  
CEG 453 Embedded Systems  
CEG 498/499 Team Projects

**C. CS/CEG Electives (16 hours)**

**D. Other Required Engineering Courses (13 hours)**

EE 301/302 Circuit analysis I & Lab  
EE 321 Linear Systems I  
EE 331/332 Electronic Devices & Lab

**E. Technical Communications (3 hours)**

EGR 335 Technical Communications

**II. GENERAL EDUCATION (40 hours)**

**Area I- Communication Skills (8 hours)**

ENG 101 - Composition I  
ENG 102 - Composition II  
Mathematics (*satisfied by required Math/Stat section*)

**Area II – Cultural-Social Foundations- (8 hours)**

**Area III – Human Behavior – (8 hours)**

**Area IV – Human Expression – (4 hours)**

**Additional courses from Areas II, III, and IV (8 hours)**

**Area V – Natural Sciences Satisfied by required physics courses**

**Area VI – College Component (4 hours)**

Select one course from following;

EC 290 Economics  
ISE 210 Engineering Perspectives (Preferred)  
PSY 110 Psychology: Science and Practice  
URS 200 Growth and Change in Urban Society

**Must select 4 Writing Intensive Courses (WI)**

**III. MATHEMATICS AND SCIENCE COURSES (48 hours)**

**A. Required Mathematics/Statistics Courses (29 hours)**

MTH 229 Calculus I  
MTH 230 Calculus II  
MTH 231 Calculus III  
MTH 253 Matrix Algebra  
MTH 257 Discrete Mathematics  
STT 363, STT 360, or ISE 301 Statistics  
Select one course:  
MTH 233 Differential Equations  
MTH 235 Differential Equations with Matrix Algebra

**B. Required Physics Courses (16 hours)**

PHY 240/200 and Lab  
PHY 242/202 and Lab  
PHY 244/204 and Lab

**C. Science and Mathematics Electives (3 hours)**

**IV. GENERAL ELECTIVES (16 hours)**

Electives may be from any area of study.



**WRIGHT STATE  
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For more information, please visit  
<http://www.cs.wright.edu/cse/students/future/>