B.S. in Computer Engineering

General Education Requirements

For a full description of Embry-Riddle General Education guidelines, please see the General Education section of the catalog. These Minimum requirements are applicable to all degree programs.

Communication Theory & Skills (COM 122, COM 219, COM 221)	9
Lower-Level Humanities	3
Lower-Level Social Sciences	3
Lower or Upper-Level Humanities or Social Sciences	3
Upper-Level Humanities or Social Sciences	3
Mathematics (MA 241 & MA 242)	8
Computer Science (CS 223)	3
Physical and Life Sciences (PS 150, PS 160 & PS 253)	7
Total Credits	**39**

Professional Preparation		
EGR 101	Introduction to Engineering	2
UNIV 101	College Success	1
Mathematics		
MA 243	Calculus and Analytical Geometry III	4
MA 345	Differential Equations and Matrix Methods	4
MA 412	Probability and Statistics	3
Physical Science		
PS 250	Physics for Engineers III	3
Computer Engineering		
CEC 220	Digital Circuit Design	3
CEC 222	Digital Circuit Design Laboratory	1
CEC 300	Computing in Aerospace and Aviation	3
CEC 315	Signals and Systems	3
CEC 320	Microprocessor Systems	3
CEC 322	Microprocessor Systems Laboratory	1
CEC 330	Digital Systems Design with Aerospace Applications	4
CEC 330L	Digital Systems Design Laboratory	0
CEC 410	Digital Signal Processing	3
CEC 411	Digital Signal Processing Laboratory	1
CEC 420	Computer Systems Design I	3
CEC 421	Computer Systems Design II	3
CEC 450	Real-Time Embedded Systems	3
CEC 470	Computer Architecture	3
Computer Science		
CS 222	Introduction to Discrete Structures	3
CS 225	Computer Science II	4
CS 225L	Computer Science II Laboratory	0
CS 420	Operating Systems	3
CS 462	Computer Networks	3
Electrical Engineering		
EE 223	Linear Circuits Analysis I	3
EE 224	Electrical Engineering Laboratory I	1
EE 300	Linear Circuits Analysis II	3
EE 302	Electronic Devices and Circuits	3
EE 304	Electronic Circuits Laboratory	1
EE 401	Control Systems Analysis and Design	3
EE 402	Control Systems Laboratory	1

Systems Engineering		
Required Electives		
SYS 320	Systems Engineering Practices	3
Specified Electives *		6
Total Credits		**127**

* Approved by Program Coordinator