

Effective for students admitted in/after Fall 2015

THE CATHOLIC UNIVERSITY OF AMERICA
DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
Bachelor of Electrical Engineering (B.E.E.) FYE

1st 17	MATH 121 4 CALCULUS I	CSC 113 3 INTRODUCTION TO COMPUTER PROGRAMMING WITH MATLAB	ENGR 102 3 INTRO ENGR DESIGN & PROF	ENGR 104 1 INTRO ENGINEERING LAB			PHIL 201 3 THE CLASSICAL MIND	ENG 101 3 RHETORIC AND COMPOSITION
2nd 16	MATH 122 4 CALCULUS II		PHYS 215 4 UNIVERSITY PHYSICS I			ENGR 106 2 CAE TOOLS	PHIL 202 3 THE MODERN MIND	TRS 201 3 FAITH SEEKING UNDERSTANDING
3rd 16	MATH 221 4 CALCULUS III		PHYS 216 4 UNIVERSITY PHYSICS II	CHEM 107 3 GENERAL CHEMISTRY	CHEM 113 2 GENERAL CHEMISTRY LABORATORY	ENGR 201 3 Engineering Mechanics (PHYS 215)		
4th 16	ENGR 222 4 ENGINEERING MATH I		ENGR 212 3 ELECTRIC NETWORKS			ENGR 211 3 THERMO-DYNAMICS	ENGR 207 3 Programing Robots and Sensors	PHIL 362 3 PROFESSIONAL ETHICS IN ENGR
5th 17	MATH 309 3 PROBABILITY & STATISTICS FOR ENGINEERS	EE/CSC 326 3 SWITCHING CIRCUITS & LOGIC DESIGN	EE/CSC 327 1 SWITCHING CIRCUITS & LOGIC DESIGN LAB	EE 311 3 SIGNALS & SYSTEMS	ENGR 321 3 ELECTRONIC CIRCUITS	ENGR 355 1 ELECTRONIC CIRCUITS LAB		LS 3 LIBERAL STUDY ELECTIVE
6th 13		EE 357 1 ELECTROMAGNETIC LAB	EE/CSC 312 3 MICRO-PROCESSOR PROGRAMMING	EE 342 3 ELECTRO- MAGNETIC FIELDS & WAVES	PE 3 PROGRAM ELECTIVE			LS 3 LIBERAL STUDY ELECTIVE*
7th 16		ENGR 401 1 SENIOR SEMINAR	ENGR 503 3 CONTROL SYSTEMS	PE 3 PROGRAM ELECTIVE	EE 413 3 COMM SYSTEMS & NETWORKS	EE 457 1 COMMUNICATIONS LAB	EE 491 2 ENGINEERING PRACTICE & DESIGN I	LS 3 LIBERAL STUDY ELECTIVE
8th 12			PE 3 PROGRAM ELECTIVE		PE 3 PROGRAM ELECTIVE	EE 492 3 ENGINEERING PRACTICE & DESIGN II		LS 3 LIBERAL STUDY ELECTIVE
Total	123							

* Any changes made to the approved courses must be reapproved by the advisor. Otherwise, the changes might result in delaying graduation, and the student will bear full responsibility.

* Three theology courses are required including TRS 201

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1st 17	MATH 121 4 Preq: Math Placement Test	CSC 113 3 Preq: None	ENGR 102 3 Preq: None	ENGR 104 1 Preq: None			PHIL 201 3 Preq: None	ENG 101 3 Preq: None
2nd 16	MATH 122 4 MATH 121		PHYS 215 4 Math 122 (Co-Reg)			ENGR 106 2 CAE TOOLS	PHIL 202 3 PHIL 201 3	TRS 201 3 Preq: None
3rd 16	MATH 221 4 MATH 122		PHYS 216 4 PHYS 215	CHEM 107 3 CHEM 113 (CO-Req)	CHEM 113 2 Preq: None	ENGR 201 3 MATH 122 & PHYS 215		
4th 16	ENGR 222 4 MATH 122		ENGR 212 3 MATH 122 & PHYS 216			ENGR 211 3 MATH 122	ENGR 207 3 Preq: None	PHIL 362 3 Preq: None
5th 17	MATH 309 3 MATH 122	EE/CSC 326 3 EE/CSC 327 (CO-Req)	EE/CSC 327 1 EE/CSC 326 (CO-Req)	EE 311 3 ENGR 212	ENGR 321 3 ENGR 212 ENGR 355(CO-Req)	ENGR 355 1 ENGR 212 ENGR 321(CO-Req)		LS 3 Consult Advisor
6th 13		EE 357 1 EE/CSC 326 & ENGR 355 & EE 342 (CO-Req)	EE/CSC 312 3 EE/CSC 326	EE 342 3 ENGR 222 & PHYS 216	PE 3 Consult Advisor			LS 3 Consult Advisor
7th 16	ENGR 401 1 SENIOR SEMINAR	ENGR 503 3 SENIOR STANDING	PE 3 Consult Advisor	EE 413 3 EE 311	EE 457 1 EE 357 & EE 413 (CO-Req)	EE 491 2 SENIOR STANDING		LS 3 Consult Advisor
8th 12			PE 3 Consult Advisor		PE 3 Consult Advisor	EE 492 3 EE 491		LS 3 Consult Advisor
Total	123							

Sciences	32
LS	27
Engr	22
EE/CSC	33
PE	9
Total	123