

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 19	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 I	LS 3 LIBERAL STUDY ELECTIVE*	
4th 16	ENGR 222 4 ENGINEERING MATH I		ENGR 212 3 ELECTRIC NETWORKS		ENGR 211 3 THERMO-DYNAMICS	ENGR 202 3 ENGINEERING MECHANICS II	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 I	ENGR 355 1 ELECTRONIC CIRCUITS LAB I	LS 3 LIBERAL STUDY ELECTIVE	
6th 15		EE 357 1 ELECTROMAGNETIC LAB	EE/CSC 312 3 MICRO-PROCESSOR PROGRAMMING	EE 342 3 ELECTRO-MAGNETIC FIELDS & WAVES	EE 362 3 ANALOG & DIGITAL SIGNAL PROC.	EE 322 3 ELECTRONIC CIRCUITS II	EE 356 2 ELECTRONIC CIRCUITS LAB II	
7th 16		ENGR 401 1 SENIOR SEMINAR	ENGR 503 3 CONTROL SYSTEMS	EE 422 3 MIXED SIGNAL VLSI DESIGN	EE 413 3 COMM SYSTEMS & NETWORKS	EE 457 1 COMMUNICATIONS LAB	EE 491 2 ENGINEERING PRACTICE & DESIGN I	LS 3 LIBERAL STUDY ELECTIVE
8th 15			PE 3 PROGRAM ELECTIVE	EE 561 3 RANDOM SIGNAL THEORY	PE 3 PROGRAM ELECTIVE	EE 492 3 ENGINEERING PRACTICE & DESIGN II	LS 3 LIBERAL STUDY ELECTIVE	

Total 131

* 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 Preq: None		ENGR 106 2 Preq: None	PHIL 202 3 PHIL 201	TRS 201 3 Preq: None
3rd 19	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	LS 3 Consult Advisor
4th 16	ENGR 222 4 MATH 122		ENGR 212 3 MATH 122 & PHYS 216		ENGR 211 3 MATH 122	ENGR 202 3 ENGR 201	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 1 ENGR 212	LS 3 Consult Advisor
6th 15		EE 357 1 EE/CSC 326 & ENGR 355 & 342 (Co-req) EE	EE/CSC 312 3 EE/CSC 326	EE 342 3 ENGR 222 & PHYS 216	EE 362 3 EE 311	EE 322 3 ENGR 321	EE 356 2 ENGR 355
7th 16	ENGR 401 1 SENIOR STANDING	ENGR 503 3 SENIOR STANDING	EE 422 3 EE 322	EE 413 3 EE 311	EE 457 1 EE 357 & 413 (CO-Req) EE	EE 491 2 SENIOR STANDING	LS 3 Consult Advisor
8th 15		PE 3 Consult Advisor	EE 561 3 MATH 309	PE 3 Consult Advisor	EE 492 3 EE 491		LS 3 Consult Advisor