

Name	
Student ID	
Date	

## 2025-26 Bachelor of Science in Computer Engineering Checklist

Franksformational Journey Program (TJP) First Year Experience (3 credits)  FYS 110 First Year Seminar  Faith and Ethics (9 credits)  THL 105 Introduction to Theology PHL 130 Human Nature & Person Second THL*  Scientific Problem Solving Fulfilled by major requirements  Quantitative Problem Solving Fulfilled by major requirements  Civics Problem Solving Fulfilled by major requirements (EGR 317)  Communication (6 credits)  ENG 112 Writing and Community  COM 101 Public Speaking  Cultural and Global Awareness (6 credits)  World Language (determined by placement) One of the following courses:  GLS 101 Global Perspectives HUM 210 Meaning Through Culture  Health and Well-Being (6 credits)  HWB 110 Holistic Health: Mind, Body, and Spirit One of the following courses:  PSY 101 General Psychology PSY 220 Human Growth and Development SOC 101 Introduction to Sociology  Broad Integrative Knowledge Outside Major**  a. Completion of a minor b. Completion of a second major c. Completion of a Pathway *Please refer to catalog or MUHUB Progress tab for a complete list of courses that meet these requirements. **Please refer to catalog or MUHUB Progress tab for a description of acceptable major/minor options.	General Math and Science Requirements (27 hours)  MAT 230 Calculus II  MAT 305 Calculus III  EGR 210 Engineering Computation and Modeling CHE 140 General Chemistry I  CHE 141L General Chemistry I Lab  PHY 201 University Physics I  PHY 202 University Physics II  Engineering Core Requirements (24 hours)  EGR 101 Introduction to Engineering  EGR 151 Programming for Engineers  EGR 221 Engineering Mechanics: Statics  EGR 221 Engineering Mechanics: Statics  EGR 242 Linear Circuit Analysis  EGR 301 Global Engineering  EGR 317 Engineering Economics  EGR 491 Engineering Senior Design  Computer Engineering Requirements (49 hours)  EGR 326 Engineering Statistics  EGR 451 Control Systems  CST 200 Data Structures and Algorithms  CST 220 Comp Org & Assembly Lang Prog  CPE 246 Advanced Programming  CPE 256 Computer Vision  CPE 303 Introduction to Operating Systems  CPE 341 Linear Circuit Analysis II  CPE 343 Digital System Design  CPE 344 Signal and Systems  CPE 345 Microprocessor Design  CPE 404 Comp Network & Communications  CPE 492 Senior Design II  MAT 250 Problem Solving  Computer Engineering Elective  Computer Engineering Elective	3 1 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3



## 2025-26 Bachelor of Science in Computer Engineering Sample Four-Year Plan

Year One									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus I	MAT 230	4	Gen Math & Sci: Calculus II	MAT 231	4				
CORE: Intro Engineering	EGR 101	3	Gen Math & Sci: University Physics I	PHY 201	4				
CORE: Programming for Engineers	EGR 151	3	MAJ: Problem Solving	MAT 250	3				
TJP: First Year Seminar	FYS 110	3	CORE: Intro Computer Aided Design	EGR 156	3				
TJP: Intro Theology	THL 105	3	TJP: Holistic Health	HWB 110	3				
Semester Hours	16		Semester Hours	17					
Cumulative Hours		16	Cumulative Hours	33					
Year Two									
Fall Semes	ter		Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus III	MAT 305	4	Gen Math & Sci: Comp & Modeling	EGR 210	3				
Gen Math & Sci: University Physics II	PHY 202	4	CORE: Lin Circuit Analysis	EGR 242	3				
CORE: Engr Mechanics: Statics	EGR 221	3	MAJ: Computer Vision	CPE 256	3				
MAJ: Advanced Programming	CPE 246	3	TJP: Writing and Community	ENG 112	3				
TJP: Public Speaking	COM 101	3	Gen Math & Sci: Gen Chem I	CHE 140	3				
			Gen Math & Sci: Gen Chem I Lab	CHE 141	1				
Semester Hours		17	Semester Hours		16				
Cumulative Hours		50	Cumulative Hours		66				
		Year 7	Гhree						
Fall Semester Spring Semester				ster					
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Global Engineering	EGR 301	3	TJP: Health & Well-Being	PSY/SOC	3				
MAJ: Data Structures	CST 200	4	CORE: Engineering Economics	EGR 317	3				
MAJ: Digital System Design	CPE 343	3	MAJ: Signals & Systems	CPE 344	3				
MAJ: Linear Circuit Analysis II	CPE 341	3	MAJ: Microprocessor Design	CPE 356	3				
MAJ: Intro to Operating Systems	CPE 303	3	MAJ: Comp Org and Assembly	CST 220	3				
			MAJ: Comp Networks & Comms	CPE 404	3				
Semester Hours		16	Semester Hours		18				
Cumulative Hours		82	Cumulative Hours		100				
		Year	Four						
Fall Semes	ter		Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Senior Design I	EGR 491	3	TJP: Faith & Ethics #2	2 <sup>nd</sup> THL	3				
MAJ: Control Systems	EGR 451	3	MAJ: Engineering Statistics	EGR 326	3				
MAJ: CPE Program Elective	CPE XXX	3	MAJ: Senior Design II	CPE 492	3				
TJP: World Language	World Lang.	3	TJP: Cultural/Global	HUM/GLS	3				
TJP: Human Nature & Person	PHL 130	3	MAJ: CPE Program Elective	CPE XXX	3				
Semester Hours		15	Semester Hours		15				
Cumulative Hours		115	Cumulative Hours		130				

<sup>\*</sup>A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This plan is only a sample and will vary by student and course availability.