Bachelor of Science in Computer Science – Hardware

2024 – 2025 Academic Program

FIRST SEMESTER (EVEN)				SECOND SEMESTER (ODD)			
Proposed Courses	**Sem/Yr**	**Grade**		**Proposed Courses**	**Sem/Yr**	**Grade**	
CS 121 – Computer Science I [4]				**CS 122** – Computer Science II [4]			
EN 100 – PLE Writing & Language [4]	PLE Core			**MA 121** – Calculus I [4]	MA Core		
FYS 100 – First Year Seminar [4]				**MA 251** – Probability and Statistics [4]			
MA 120 – Foundations of Calc [4]				**Core Course** or **Elective**			

THIRD SEMESTER (ODD)				FOURTH SEMESTER (EVEN)			
Proposed Courses	**Sem/Yr**	**Grade**		**Proposed Courses**	**Sem/Yr**	**Grade**	
CS 209 – Database Systems [4]				**CS 222** – Systems Programming [4]			
CS 221 – Data Structures [4]				**CS 230** – Comp Architecture [4]			
CS 250 – Foundations AI & DS [4]				**MA 135** – Applied Discrete Math [4]			
Core Course or **Elective**				**Core Course** or **Elective**			

FIFTH SEMESTER (EVEN)				SIXTH SEMESTER (ODD)			
Proposed Courses	**Sem/Yr**	**Grade**		**Proposed Courses**	**Sem/Yr**	**Grade**	
CS 296 – Professional Dev Seminar [1]	SLE #1			**CS 322** – Algorithms [4]			
EGR 330 – *Digital Designs* [4]				**CS 396** – Industry and Special Topics Sem [1]			
CS 341 – Software Engineering [4]				*EGR 430* – *Parallel Processing* [4]			
PH 263 – Societal Imp of Computing [4]	HUM Core			**Core Course** or **Elective**			
Core Course or **Elective**				**Core Course** or **Elective**			

SEVENTH SEMESTER (ODD)				EIGHTH SEMESTER (EVEN)			
Proposed Courses	**Sem/Yr**	**Grade**		**Proposed Courses**	**Sem/Yr**	**Grade**	
CS 401 – Capstone Project I [2]				**CS 402** – Capstone Project II [2]	SLE #2		
CS 421 – Prog Lang Design & Imp [4]				**CS 422** – Operating Systems [4]			
EGR 434 – *Robotics & Machine Intell* [4]				**Core Course** or **Elective**			
Core Course or **Elective**				**Core Course** or **Elective**			

Transfer Credits	
TOTAL CREDITS	

Note: Italicized courses are offered every other year

Core Courses Required:
1. **PLE** Core Course *must* be **EN 100 Writing and Language**
2. **FYS 100 First Year Seminar**
3. **MA** Core Course *must* be **MA 121 Calculus I or MA 251 Prob & Stat**
4. **HUM** Core Course *must* be **PH 263 Societal Impacts of Computing**
5. **NPS1:** _____
6. **PLO:** _____
7. **CE:** _____   *one must*
8. **WCH:** _____   *be designated*
9. **NCH:** _____   *GWR*
10. **SSC:** _____

CS Electives: (9-12 credits may include **CS,
DAT**, or **EGR 330, 430, 434**)
1. _____
2. _____
3. _____
4. _____

11/15/2024