Bachelor of Science in Computer Science – Web & Application Design

2024 – 2025 Academic Program

FIRST SEMESTER (EVEN)

Proposed Courses	Sem/Yr	Grade
CS 121 – Computer Science I [4]		
EN 100 – PLE Writing & Language [4]	PLE Core	
FYS 100 – First Year Seminar [4]		
MA 120 – Foundations of Calc [4]		

SECOND SEMESTER (ODD)

Proposed Courses	Sem/Yr	Grade
CS 122 – Computer Science II [4]		
MA 121 – Calculus I [4]	MA Core	
MA 251 – Probability and Statistics [4]		
Core Course or **Elective**		

THIRD SEMESTER (ODD)

Proposed Courses	Sem/Yr	Grade
CS 209 – Database Systems [4]		
CS 221 – Data Structures [4]		
CS 250 – Foundations AI & DS [4]		
Core Course or **Elective**		

FOURTH SEMESTER (EVEN)

Proposed Courses	Sem/Yr	Grade
CS 222 – Systems Programming [4]		
CS 230 – Comp Architecture [4]		
MA 135 – Applied Discrete Math [4]		
Core Course or **Elective**		

FIFTH SEMESTER (EVEN)

Proposed Courses	Sem/Yr	Grade
ART 103 – *Intro to Graph Design I* [4]		
CS 296 – Professional Dev Seminar [1]		
CS 310 – *Web Development* [4]		
CS 341 – Software Engineering [4]	SLE #1	
PH 263 – Societal Imp of Computing [4]	HUM Core	

SIXTH SEMESTER (ODD)

Proposed Courses	Sem/Yr	Grade
ART 325 – Designing for the Web & SM [4]		
CS 322 – Algorithms [4]		
CS 396 – Industry and Special Topics Sem [1]		
Core Course or **Elective**		
Core Course or **Elective**		

SEVENTH SEMESTER (ODD)

Proposed Courses	Sem/Yr	Grade
CS 312 – Application Develop [4]		
CS 401 – Capstone Project I [2]		
CS 421 – Prog Lang Design & Imp [4]		
Core Course or **Elective**		

EIGHTH SEMESTER (EVEN)

Proposed Courses	Sem/Yr	Grade
CS 402 – Capstone Project II [2]	SLE #2	
CS 422 – Operating Systems [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:** _____
8. **WCH:** _____
9. **NCH:** _____
10. **SSC:** _____

one must be designated GWR

CS Electives: (9-12 credits may include **CS, DAT**, or **EGR 330, 430, 434**)

1. _____
2. _____
3. _____
4. _____

11/15/2024