



Bachelor of Science in Computer Science – AI & Data Science

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]			CS 322 – Algorithms [4]		
CS 341 – Software Engineering [4]	SLE #1		CS 354 – <i>Big Data</i> [4]		
CS 350 – <i>DM to Deep Learning</i> [4]			CS 396 – Industry & Special Topics Sem [1]		
MA 252 – Stats Methods in Research [4]			Core Course or Elective		
PH 263 – Societal Imp of Computing [4]	HUM Core		Core Course or Elective		
SEVENTH SEMESTER (ODD)			EIGHTH SEMESTER (EVEN)		
Proposed Courses	Sem/Yr	Grade	Proposed Courses	Sem/Yr	Grade
CS 401 – Capstone Project in Comp I [2]			BA 260 – Data Visualization [2]		
CS 421 – Prog Lang Design & Imp [4]			CS 358 – Machine Learning [2]		
Core Course or Elective			CS 402 – Capstone Project in Comp II [2]	SLE #2	
Core Course or Elective			CS 422 – Operating Systems [4]		
			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. _____