B.S. in Computer Science (CS),
Concentration in Information Assurance (IA), Game Development (GD), or General (GEN)
JSU Catalog 2019-2020 and later

Student Name: ___________________________  Student Number: _____________________ Catalog: _______________

Computer Science Major Curriculum – (33 hrs)

☐ CS 230 Fundamental of Computing*
☐ CS 231 Computer Programming I**
☐ CS 232 (3) Computer Programming II~
☐ CS 234 (3) Discrete Computational Structures
☐ CS 304 (3) Technical Writing for Computer Science
☐ CS 310 (3) Software Engineering I
☐ CS 331 (3) Data Structures and Algorithms
☐ CS 333 (3) Computer Organization and Architecture
☐ CS 350 (3) Fundamentals of Computer Operating Systems
☐ CS 450 (3) Computer Networking
☐ CS 462 (3) Ethics and Legal Issues
☐ CS 488 (3) Database Systems
☐ CS 491 (3) Software Engineering II

*hours count in Area V
**Prereq 231: CS 230 w/C or better; GPA 2.0+; MS 112+
~Prereq 232: CS 231 w/C or better

Choose a Concentration - (12 hrs)

INFORMATION ASSURANCE

☐ CS 307 (3) Mgt of Information Security & Forensics
☐ CS 308 (3) Embedded & Control Systems Security
☐ CS 470 (3) Computer Security

Choose One Course from
☐ CS 412 (3) Disaster Response & Recovery or
☐ CS 461 (3) Critical Infrastructure or
☐ CS 425 (3) Web Applications Development Using Web Services

GAME DEVELOPMENT

☐ CS 339 (3) Game Design I
☐ CS 439 (3) Game Design II

Choose Two Courses from
☐ CS 430 (3) Human Computer Interaction
☐ CS 432 (3) Computer Graphics
☐ CS 444 (3) Artificial Intelligence

GENERAL

(6 hrs 300+ CS Electives*)
☐ CS _____ (3)
☐ CS _____ (3)

(6 hrs 400+ CS Electives)
☐ CS _____ (3)
☐ CS _____ (3)

*excluding CS 305

Support Courses – All Concentrations (15 hrs)

☐ MS 302 Applied Probability and Statistics
☐ MS 352 Linear Algebra

☐ General Electives (9 hrs)
_____ ( ) _____ ( ) _____ ( ) _____ ( )

University Core Curriculum – (42 hrs)

First Year Experience (0 hr) Not required for transfer students
☐ STU 101

Area I – Written Composition (6 hrs)
☐ EH 101 (3)  ☐ EH 102 (3)

Area II – Humanities & Fine Arts (12 hrs)

*Literature – at least one course
☐ EH 201 (3)  ☐ EH 203 (3)  ☐ EH 219 (3)  ☐ EH 231 (3)
☐ EH 202 (3)  ☐ EH 204 (3)  ☐ EH 220 (3)  ☐ EH 232 (3)

Fine Arts – at least one course
☐ ART 202 (3)  ☐ MU 233
☐ DR 242 (3)

Speech
☐ EH 141 (3)

Area III – Natural Science & Math (12-14 hrs)

Science – Choose one Sequence
☐ BY 101 (3) & BY 103 (1)  ☐ CY 105 (3) & CY 107 (1)
☐ BY 102 (3) & BY 104 (1)  ☐ CY 106 (3) & CY 108 (1)
☐ PHS 211 (4) & PHS 213 (1)
☐ PHS 212 (4) & PHS 214 (1)

Mathematics
☐ MS 125 (4)
±Prereq MS 125: MS 113 w/C or better or Math EdReady Placement

Area IV – History, Social, & Behavioral Sciences (12 hrs)

*History – at least one course
☐ HY 101 (3)  ☐ HY 201 (3)
☐ HY 102 (3)  ☐ HY 202 (3)

Social & Behavioral Science
At least two courses
☐ AN 224 (3)  ☐ PSY 201 (3)  ☐ SY 221 (3)
☐ EC 221 (3)  ☐ PSY 222 (3)
☐ EC 222 (3)  ☐ GY 120 (3)
☐ PSC 100 (3)  ☐ GY 220 (3)

#Sequence Required in Literature or History#

Area V – Major Support/Electives (18 hrs)

☐ CS 201 (3) Intro to Information Technology
☐ CS 230 (3) Fundamentals of Computing
☐ CS 231 (3) Computer Programming I
☐ MS 126 (4) Calculus II

Electives (5 hrs)
_____ ( ) _____ ( ) _____ ( ) _____ ( )

Graduation Requirements

☐ 120 total hours
☐ “C” or better in major courses
☐ 30 JSU hours
☐ English Competency Exam (ECE)
☐ 36 300+ hours
☐ 60 hrs at 4-yr institution
☐ 2.0 overall GPA
☐ Apply to Graduate
☐ 2.0 JSU GPA
☐ EPP or CLA assessment
☐ 12 hrs in major, 300+ at JSU
☐ Dept. Head Exit Interview