

# 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)
<input type="checkbox"/> <b>CS 230</b> Fundamental of Computing <sup>+</sup> <input type="checkbox"/> <b>CS 231</b> Computer Programming I <sup>^</sup> <input type="checkbox"/> <b>CS 232</b> (3) Computer Programming II <sup>~</sup> <input type="checkbox"/> <b>CS 234</b> (3) Discrete Computational Structures <input type="checkbox"/> <b>CS 304</b> (3) Technical Writing for Computer Science <input type="checkbox"/> <b>CS 310</b> (3) Software Engineering I <input type="checkbox"/> <b>CS 331</b> (3) Data Structures and Algorithms <input type="checkbox"/> <b>CS 333</b> (3) Computer Organization and Architecture <input type="checkbox"/> <b>CS 350</b> (3) Fundamentals of Computer Operating Systems <input type="checkbox"/> <b>CS 450</b> (3) Computer Networking <input type="checkbox"/> <b>CS 462</b> (3) Ethics and Legal Issues <input type="checkbox"/> <b>CS 488</b> (3) Database Systems <input type="checkbox"/> <b>CS 491</b> (3) Software Engineering II
<p><i>*hours count in Area V</i>  <sup>^</sup>Prereq 231: CS 230 w/C or better; GPA 2.0+; MS 112+  <sup>~</sup>Prereq 232: CS 231 w/C or better</p>

## Choose a Concentration - (12 hrs)

INFORMATION ASSURANCE	
<input type="checkbox"/> <b>CS 307</b> (3) Mgt of Information Security & Forensics <input type="checkbox"/> <b>CS 308</b> (3) Embedded & Control Systems Security <input type="checkbox"/> <b>CS 470</b> (3) Computer Security <i>Choose One Course from</i> <input type="checkbox"/> <b>CS 412</b> (3) Disaster Response & Recovery or <input type="checkbox"/> <b>CS 461</b> (3) Critical Infrastructure or <input type="checkbox"/> <b>CS 425</b> (3) Web Applications Development Using Web Services	
GAME DEVELOPMENT	
<input type="checkbox"/> <b>CS 339</b> (3) Game Design I <input type="checkbox"/> <b>CS 439</b> (3) Game Design II <i>Choose Two Courses from</i> <input type="checkbox"/> <b>CS 430</b> (3) Human Computer Interaction <input type="checkbox"/> <b>CS 432</b> (3) Computer Graphics <input type="checkbox"/> <b>CS 444</b> (3) Artificial Intelligence	
GENERAL	
(6) hrs 300+ CS Electives* <input type="checkbox"/> CS _____ (3) <input type="checkbox"/> CS _____ (3) *excluding CS 305	(6) hrs 400+ CS Electives <input type="checkbox"/> CS _____ (3) <input type="checkbox"/> CS _____ (3)

Support Courses – All Concentrations (15 hrs)
<input type="checkbox"/> <b>MS 302</b> Applied Probability and Statistics <input type="checkbox"/> <b>MS 352</b> Linear Algebra
<input type="checkbox"/> General Electives (9 hrs) _____ ( ) _____ ( ) _____ ( ) _____ ( )

Graduation Requirements	
<input type="checkbox"/> 120 total hours <input type="checkbox"/> 30 JSU hours <input type="checkbox"/> 36 300+ hours <input type="checkbox"/> 2.0 overall GPA <input type="checkbox"/> 2.0 JSU GPA <input type="checkbox"/> 12 hrs in major, 300+ at JSU	<input type="checkbox"/> "C" or better in major courses <input type="checkbox"/> English Competency Exam (ECE) <input type="checkbox"/> 60 hrs at 4-yr institution <input type="checkbox"/> Apply to Graduate <input type="checkbox"/> EPP or CLA assessment <input type="checkbox"/> Dept. Head Exit Interview

University Core Curriculum – (42 hrs)
<b>First Year Experience (0 hr)</b> <i>Not required for transfer students</i> <input type="checkbox"/> STU 101
<b>Area I – Written Composition (6 hrs)</b> <input type="checkbox"/> EH 101 (3) <input type="checkbox"/> EH 102 (3)
<b>Area II – Humanities &amp; Fine Arts (12 hrs)</b> #Literature – at least one course <input type="checkbox"/> EH 201 (3) <input type="checkbox"/> EH 203 (3) <input type="checkbox"/> EH 219 (3) <input type="checkbox"/> EH 231 (3) <input type="checkbox"/> EH 202 (3) <input type="checkbox"/> EH 204 (3) <input type="checkbox"/> EH 220 (3) <input type="checkbox"/> EH 232 (3)  Fine Arts – at least one course <input type="checkbox"/> ART 202 (3) <input type="checkbox"/> MU 233 <input type="checkbox"/> DR 242 (3)  Speech <input type="checkbox"/> EH 141 (3)
<b>Area III – Natural Science &amp; Math (12-14 hrs)</b> Science – Choose one Sequence <input type="checkbox"/> BY 101 (3) & BY 103 (1) <input type="checkbox"/> CY 105 (3) & CY 107 (1) <input type="checkbox"/> BY 102 (3) & BY 104 (1) <input type="checkbox"/> CY 106 (3) & CY 108 (1)  <input type="checkbox"/> PHS 211 (4) & PHS 213 (1) <input type="checkbox"/> PHS 212 (4) & PHS 214 (1)  Mathematics <input type="checkbox"/> MS 125 (4) ‡Prereq MS 125: MS 113 w/C or better or Math EdReady Placement
<b>Area IV – History, Social, &amp; Behavioral Sciences (12 hrs)</b> #History – at least one course <input type="checkbox"/> HY 101 (3) <input type="checkbox"/> HY 201 (3) <input type="checkbox"/> HY 102 (3) <input type="checkbox"/> HY 202 (3)  Social & Behavioral Science At least two courses <input type="checkbox"/> AN 224 (3) <input type="checkbox"/> PSY 201 (3) <input type="checkbox"/> SY 221 (3) <input type="checkbox"/> EC 221 (3) <input type="checkbox"/> PSY 222 (3) <input type="checkbox"/> EC 222 (3) <input type="checkbox"/> GY 120 (3) <input type="checkbox"/> PSC 100 (3) <input type="checkbox"/> GY 220 (3)
<b>#Sequence Required in Literature or History#</b>
<b>Area V – Major Support/Electives (18 hrs)</b>
<input type="checkbox"/> CS 201 (3) Intro to Information Technology <input type="checkbox"/> CS 230 (3) Fundamentals of Computing <input type="checkbox"/> CS 231 (3) Computer Programming I <input type="checkbox"/> MS 126 (4) Calculus II <input type="checkbox"/> Electives (5 hrs) _____ ( ) _____ ( ) _____ ( ) _____ ( )