**2020-2021 CURRICULUM CHECKSHEET for BACHELOR OF SCIENCE majoring in INFORMATION TECHNOLOGY**

**For students entering the program in 2020-2021**

Student Services, CEIT 1208 (912) 478-4877

Allen E. Paulson College of Engineering & Computing

Georgia Southern University

**ALL GRADES IN AREA A MUST BE ‘C’ OR BETTER**

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| **AREA A: Essential Skills (9hrs)\*** | | **H** | **G** |
| **Area A1: Communication Skills (6 hrs)\*** | | | |
| ENGL 1101 | Composition I | 3 |  |
| ENGL 1102 | Composition II ('C' in ENGL 1101 or WRIT 1101) | 3 |  |
| **Area A2: Quantitative Skills (3 hrs)** | | | |
| MATH 1111 | College Algebra (Two years of high school algebra or equivalent) | 3 |  |

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| **AREA B: Global Engagement (7 hrs)** | | **H** | **G** |
| HIST 1111  **OR**  HIST 1112 | World History I  World History II | 3 |  |
| CORE 2000 | CORE Capstone | 1 |  |
| **Area B: Select a course from Area B (3 hrs)** | | | |
|  |  | 3 |  |

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| **AREA C: Humanities & Fine Arts (6 hrs)** | | **H** | **G** |
| COMM 1110 | Public Speaking ('C' in ENGL 1101 or WRIT 1101) - *Recommended* | 3 |  |
| **Area C: Select a course from one of the following:**  **ENGL 2100, ENGL 2111, ENGL 2112, PHIL 2010 or PHIL 2030** | | | |
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| **AREA D: Natural Sciences/Math/Technology (11 hrs)** | | **H** | **G** |
| **Area D1: Select two lab science courses from D1 (8 hrs):** | | | |
|  |  | 4 |  |
|  |  | 4 |  |
| **Area D2: Select a course from Area D2 (3 hrs):** | | | |
| MATH 1232 **OR**  MATH 1441 | Survey of Calculus ('C' in MATH 1101, MATH 1111, MATH 1113, MATH 1112)  Calculus I ('C' in MATH 1112 or MATH 1113) | 3 |  |

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| **AREA E: Social Science (9 hrs)** | | **H** | **G** |
| POLS 1101 | American Government | 3 |  |
| HIST 2110  **OR**  HIST 2111  **OR**  HIST 2112 | U.S. History, A Comprehensive Survey  History of the United States to 1877  History of the United States since 1877 | 3 |  |
| **Select a course from Social Science Electives (3 hrs)** | | | |
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| **University Requirements (4 hrs)** | | **H** | **G** |
| KINS 1525 | Fundamentals of Physical Activity and Health | 2 |  |
| FYE 1220 | First Year Experience | 2 |  |

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| **AREA F: Courses Appropriate for the Major (18 hrs)** | | **H** | **G** |
| IT 1130 | Introduction to Information Technology | 3 |  |
| IT 1430 | Web Page Development | 3 |  |
| IT 2430  IT 2431  **OR**  CSCI 1301  CSCI 1302 | Data Programming I ('C' in IT 1130, IT 1430, MATH 2130, STAT 1401)  Data Programming II ('C' in IT 2430 & prior or concurrent enrollment in MATH 1232 or MATH 1441  Programming Principles I ('C' in MATH 1441)  Programming Principles II ('C' in MATH 1441, MATH 2130, CSCI 1301) | 3  3  4  3 |  |
| STAT 1401 | Elementary Statistics | 3 |  |
| WRIT 2130 | Technical Communication ('C' in ENGL 1102) | 3 |  |

Name: Eagle ID:

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| **Major Requirements (36 hrs)** | | **H** | **G** |
| MATH 2130 | Discrete Mathematics (Prior or concurrent enrollment in MATH 1232 or a 'C' in MATH 1111, MATH 1112, MATH 1113, MATH 1441, or MATH 2242. | 3 |  |
| IT 2333 | IT Infrastructure ('C' in IT 1130 & STAT 1401) | 3 |  |
| IT 2530 | Operating Systems ('C' in IT 1130) | 3 |  |
| IT 2531 | Introduction to Cyber Security | 3 |  |
| IT 3133 | Electronic Commerce ('C' in IT 3233) | 3 |  |
| IT 3231 | Data Communications ('C' in IT 2530) | 3 |  |
| IT 3233 | Database Design & Implementation ('C' in CSCI 1236, CSCI 1301, or IT 2430 & MATH 2130) | 3 |  |
| IT 3234 | Systems Acquisition, Design & Implementation ('C' in IT 2333 & WRIT 2130 or WRIT 3220) | 3 |  |
| IT 4130 | IT Issues & Management ('C' in IT 3234) | 3 |  |
| IT 4530 | Senior Capstone Project ('C' in IT 3234 & Senior Standing) | 3 |  |
| IT 4790 | Internship in Information Technology (Permission of Instructor) | 3 |  |

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| **Specialization: Choose 9 hours from one specialization or 9 hours of upper division IT classes** | | **H** | **G** |
| ***Cybersecurity*** | | | |
| IT 3530 | Fundamentals of Information System Security (‘C’ in CSCI 2120 or IT 2531) | 3 |  |
| IT 4336 | Network Security ('C' in IT 3530) | 3 |  |
| IT 4337 | Ethical Hacking ('C' in IT 3530) | 3 |  |
| ***Information Management*** | | | |
| IT 3432 | Analytics Programming ("C" in (CSCI 1302 OR IT 2431) and IT 3233.) |  |  |
| IT 4136 | Knowledge Discovery and Data Mining ('C' in IT 3233 & STAT 1401 or BUSA 3131) | 3 |  |
| IT 5135 | Data Analytics ('C' in IT 3233 & STAT 1401 or BUSA 3131) | 3 |  |
| ***Network and Data Center*** | | | |
| IT 4234 | Datacenter Management ('C' in IT 3231) | 3 |  |
| IT 4335 | Network Architecture ('C' in IT 3231) | 3 |  |
| IT 5434 | Network Security Fundamentals ('C' in IT 3231 & IT 4335) | 3 |  |
| ***Web and Mobile*** | | | |
| IT 3132 | Web Software ('C' in IT 2333 & (IT 2430 or CSCI 1301)) | 3 |  |
| IT 5233 | Web and Mobile Security Fundamentals (“C” in IT 3132) | 3 |  |
| IT 5236 | Distributed and Mobile Systems ('C' IT 3132) | 3 |  |

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| **Electives (17-18 Hrs) Minimum of 9 upper division hours** | | **H** | **G** |
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**NOTE:**

* An Information Technology major must earn a ‘C’ or better in each IT course that applies toward graduation
* Only one sequence is required for Data Programming I & II or Programming Principles I & II.
* Degree is 124 credit hours.

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| Student |  | Date |  | Fall RAN |  |
|  |  |  |  | Spring RAN |  |
|  |  |  |  | Summer RAN |  |
| Advisor |  | Date |  | Registration Date |  |

**INFORMATION TECHNOLOGY SPECIALIZATION COURSES**

Select 9 credit hours from one of the following Specialization Areas **or** 9 credit hours of upper division IT courses:

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| **Cyber Security:** | |
| IT 3530 Fundamentals of Information System Security | Available in the Fall |
| IT 4336 Network Security | Available in the Spring |
| IT 4337 Ethical Hacking | Available in the Spring |
| **Information Management Specialization:** | |
| IT 3432 Advanced Analytics Programming | Available in the Fall |
| IT 4136 Knowledge Discovery and Data Mining | Available in the Fall |
| IT 5135 Data Analytics | Available in the Spring |
| **Networking & Datacenter Specialization** | |
| IT 4234 Datacenter Management | Available in the Spring/Fall |
| IT 4335 Network Architecture | Available in the Spring/Fall |
| IT 5434 Network Security Fundamentals | Available in the Spring/Fall |
| **Web & Multimedia Foundations Specialization:** | |
| IT 3132 Web Software | Available in the Fall & Spring |
| IT 5233 Web and Mobile Security Fundamentals | Available in the Spring |
| IT 5236 Distributed and Mobile Systems | Available in the Fall |

**Core Options:**

**Area B Elective**:

ANTH 1150, CRJU 2010, FORL 2001, FORL 2002, FOR 2060, GEOG 1130, HLPR 2010, HONS

1134, IDS 2000, INTS 2130, POLS 1150, PSYC 2300, RELS 2100, RELS 2130, SABR 2960, SOCI 2000, WGSS

2200

**Area C Electives:** COMM 1110 (*Preferred*), ART 1000, ARTH 2531, HONS 1132, HUMN 2321, HUMN 2322

HUMN 2433, HUMN 2434, MUSC 1100, THEA 1100

**Area D1:** ASTR 1010 & 1211, ASTR 1020 & 1211, BIOL 1103 & 1103L OR BIOL 1110L, BIOL 1107 & 1107L, BIOL 1108 & 1108L, BIOL 1230 & 1230L, CHEM 1040, CHEM 1151K, CHEM 1152K, CEHM 1211 & 1211L, CHEM 1211K, CHEM 1212 & 1212L, CHEM 1212K, CHEM 1121, GEOL 1340, PHSC 1211 & 1211L, PHYS 1149, PHYS 1111K, PHYS 1112K, PHYS 2211K, PHYS 2212K, SCIE 1212 & 1212L

**Area D2:** ASTR 1000, BIOL 1320, BIOL 1330, BIOL 1331, BIOL 1335, CHEM 1030, ENGR 1112, GEOG 1111, GEOL 1122, GEOL 1430, GEOL 1530, HONS 1133, IT 2531, MATH 1112, MATH 1113, MATH 1232, MATH 1401, MATH 1441, MATH 2242, MATH 2243, PHYS 1010, PHYS 1135, SCIE 1000, STAT 1401, TCGT 1530

**Area E Elective:** AAST 2000, ANTH 1102, ECON 1101, ECON 1150, ECON 2105, HONS 1131, PSYC 1101,

SOCI 1101, WGSS 2100