

# SOFTWARE ENGINEERING

## BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

*Audit Worksheet 2017-2018 Catalog (expires Summer 2023)*

| <b>1<sup>st</sup> &amp; 2<sup>nd</sup> Years Gen Ed &amp; Area F</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>3<sup>rd</sup> &amp; 4<sup>th</sup> Years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|--|--|-----------|--------------------------|-----------|--------------------------|---------|-------------------------------|--|-----------------------------|--------------|-------------------------------|--|-----------------------------|-----------------------------------------------------|--|--|--|
| <p><b>AREA A – Essential Skills</b> 9-10 HOURS</p> <p>ENGL 1101<br/>ENGL 1102<br/>MATH 1111,1112, 1113 , or 1251</p> <p><i>*MATH 1101 is required if SAT Math &lt; 550 or ACT &lt; 24</i></p>                                                                                                                                                                                                                                                                                                                                        | <p><b>IT UPPER DIVISION REQUIREMENTS</b></p> <p><b>IT Upper Level Core Courses</b> 21 HOURS</p> <p>ITEC 3155 Systems Analysis &amp; Design<br/>ITEC 3235 Human Computer Interaction<br/>ITEC 3245 Database Principles<br/>ITEC 3300 Project Management<br/>ITEC 4200 Foundations of Info Assurance<br/>ITEC 4205 Legal and Ethical Issues in IT<br/>ITEC 4750 Senior Capstone</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA B – Institutional Options</b> 4 HOURS</p> <p><i>Area B Elective (ITEC 1001 recommended)</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>SOFTWARE ENGINEERING</b> 30 HRS</p> <p><b>Required (30 hours)</b><br/>ITEC 3250 Software Engineering<br/>ITEC 3264 Data Structures/Algorithm Analysis<br/>ITEC 3265 Operating Systems<br/>ITEC 4261 JAVA Programming OR ITEC 4266 C++ Programming<br/>ITEC 4270 Robot Programming<br/>ITEC 4329 Data Communications<br/>ITEC 4361 Software Security<br/>ITEC 4362 Computer Architecture<br/>ITEC 4364 Systems Programming<br/>ITEC 4365 Software Testing/Quality Assurance</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA C – Humanities/Fine Arts</b> 6 HOURS</p> <p><i>Literature-based Elective</i></p> <p><b>Choose one (circle):</b><br/>ENGL 2111, 2112, 2121, 2122, 2131, 2132 , 2141, or 2142</p>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA C Elective</b></p> <p>COMM 1110 or COMM 1100</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA D – Nat Science, Math, and Tech</b> 11-12 HOURS</p> <p><i>Area D Elective Choose one (circle)</i></p> <p>MATH 1200, 1401, 1251, 1501, 2252, 2253, 2260, 2270</p> <p><b>Lab-Science Electives Choose two (circle):</b><br/>ASTR 1010K, 1020K,<br/>BIOL 1001K, 1002K, 2107K, 2108K,*<br/>CHEM 1151K, 1152K, 1211K, 1212K<br/>GEOL 1011K<br/>PHYS 1011K, 1012K, 1111K, 1112K, 2211K, 2212K</p> <p><i>*Students cannot receive graduation credit for both BIOL 1001 and BIOL 2107 or for both BIOL 1002 and BIOL 2108</i></p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA E – Social Science</b> 12 HOURS</p> <p>*POLS 1101<br/>**HIST 2111, 2112</p> <p><b>Area E Elective Choose two (circle):</b><br/>ANTH 1102,<br/>ECON 2105, 2106<br/>HIST 1111, 1112,1190, 2111, 2112<br/>GEOG 1101<br/>POLS 2101, 2201, 2301, 2401<br/>PSYC 1101<br/>SOC 1101, 1160</p> <p><i>*Will satisfy the state requirements in U.S. &amp; Georgia Constitution<br/>**Will satisfy the state requirements in U.S. and Georgia History</i></p>                                                                         | <p><b>ADDITIONAL COURSES</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| <p><b>AREA F MAJOR FIELD</b> 18-19 HOURS</p> <p>ITEC 2215 Intro to IT<br/>ITEC 2260 Intro to Programming<br/>ITEC 2270 Application Development<br/>ITEC 2320 Networking Essentials<br/>ITEC 2380 Web Development</p> <p><b>Choose one (circle)</b><br/>MATH 1251, 2120, 2252, 2253, 2260, 2270</p>                                                                                                                                                                                                                                   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center; padding: 5px;"><b>GRADUATION REQUIREMENT CHECKLIST</b></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Oral Comp</td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">Tech Comp</td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 5px;">History</td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/> U.S.</td> <td style="padding: 5px;"></td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/> GA</td> </tr> <tr> <td style="padding: 5px;">Constitution</td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/> U.S.</td> <td style="padding: 5px;"></td> <td style="padding: 5px; text-align: center;"><input type="checkbox"/> GA</td> </tr> <tr> <td colspan="4" style="padding: 5px;">Applied for Graduation <input type="checkbox"/> Yes</td> </tr> </tbody> </table> | <b>GRADUATION REQUIREMENT CHECKLIST</b> |                             |  |  | Oral Comp | <input type="checkbox"/> | Tech Comp | <input type="checkbox"/> | History | <input type="checkbox"/> U.S. |  | <input type="checkbox"/> GA | Constitution | <input type="checkbox"/> U.S. |  | <input type="checkbox"/> GA | Applied for Graduation <input type="checkbox"/> Yes |  |  |  |
| <b>GRADUATION REQUIREMENT CHECKLIST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| Oral Comp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tech Comp                               | <input type="checkbox"/>    |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| History                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> U.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | <input type="checkbox"/> GA |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| Constitution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> U.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | <input type="checkbox"/> GA |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |
| Applied for Graduation <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                             |  |  |           |                          |           |                          |         |                               |  |                             |              |                               |  |                             |                                                     |  |  |  |

# Degree Map

## Year 1

| Fall Session             |  | Spring Session           |  | Summer Session (optional) |  |
|--------------------------|--|--------------------------|--|---------------------------|--|
| 1                        |  | 1                        |  | 1                         |  |
| 2                        |  | 2                        |  | 2                         |  |
| 3                        |  | 3                        |  |                           |  |
| 4                        |  | 4                        |  |                           |  |
| 5                        |  | 5                        |  |                           |  |
| Optional 6 <sup>th</sup> |  | Optional 6 <sup>th</sup> |  |                           |  |

## Year 2

| Fall Session             |  | Spring Session           |  | Summer Session (optional) |  |
|--------------------------|--|--------------------------|--|---------------------------|--|
| 1                        |  | 1                        |  | 1                         |  |
| 2                        |  | 2                        |  | 2                         |  |
| 3                        |  | 3                        |  |                           |  |
| 4                        |  | 4                        |  |                           |  |
| 5                        |  | 5                        |  |                           |  |
| Optional 6 <sup>th</sup> |  | Optional 6 <sup>th</sup> |  |                           |  |

## Year 3

| Fall Session             |  | Spring Session           |  | Summer Session (optional) |  |
|--------------------------|--|--------------------------|--|---------------------------|--|
| 1                        |  | 1                        |  | 1                         |  |
| 2                        |  | 2                        |  | 2                         |  |
| 3                        |  | 3                        |  |                           |  |
| 4                        |  | 4                        |  |                           |  |
| 5                        |  | 5                        |  |                           |  |
| Optional 6 <sup>th</sup> |  | Optional 6 <sup>th</sup> |  |                           |  |

## Year 4

| Fall Session             |  | Spring Session           |  | Summer Session (optional) |  |
|--------------------------|--|--------------------------|--|---------------------------|--|
| 1                        |  | 1                        |  | 1                         |  |
| 2                        |  | 2                        |  | 2                         |  |
| 3                        |  | 3                        |  |                           |  |
| 4                        |  | 4                        |  |                           |  |
| 5                        |  | 5                        |  |                           |  |
| Optional 6 <sup>th</sup> |  | Optional 6 <sup>th</sup> |  |                           |  |

**NOTES:**