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| For Academic Affairs and Research Use Only |
| Proposal Number |  |
| CIP Code:  |  |
| Degree Code: |  |

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **Modification Type: [ ]Admissions, [X]Curricular Sequence, or [ ]Other**  |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| Kelly E. Fish | 10/14/2020 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| James Doering | 10/14/2020 |

**Department Chair**  |

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**Head of Unit (if applicable)**   |
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| Melodie Philhours | 10/22/2020 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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**Director of Assessment** *(only for changes impacting assessment)* |

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**Graduate Curriculum Committee Chair** |
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| Melody Lo | 10/22/2020 |

**College Dean** |

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**Vice Chancellor for Academic Affairs** |
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**General Education Committee Chair (if applicable)**   |  |

1. **Contact Person** (Name, Email Address, Phone Number)

Kelly Fish, kfish@astate.edu, 870-972-3986

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

See Appendix A

1. **Effective Date**

Fall 2021

1. **Justification –** *Please provide details as to why this change is necessary.*

The NGCOB Computer & Information Technology Department conducted extensive research over the summer that included a review of job skills forecasts, curriculum reviews from AACSB peer, aspirant and, competitive universities along with an inventory of faculty skills. The CIT curriculum was updated and expanded to provide graduates with requisite information system and business analytic skills to position them for a successful career in the field. The curriculum proposed here is the final result of these efforts.

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  |

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##  **Major in Information Systems and Business Analytics**

**Bachelor of Science**

A complete 8-semester degree plan is available at [https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42)*(For Neil Griffin College of Business requirements, see p. 125)* |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| BUSN 1003, First Year Experience Business | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**Students with this major must take the following:***A “C” or better in MATH 2143, Business Calculus* ***OR****MATH 2194, Survey of Calculus* ***OR****MATH 2204, Calculus I**ECON 2313, Principles of Macroeconomics**COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Neil Griffin College of Business Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Business Section)*Grade of “C“ or better required in ISBA 3013, Management Information Systems* | **39** |
| **Major Requirements:**Grade of “C” or better required for all Major Requirements | **Sem. Hrs.** |
| CIT 2033, Programming Fundamentals | 3 |
| CIT 2523, Telecommunications and Networking Essentials | 3 |
| CIT 3353, Mobile Apps for Business | 3 |
| CIT 3403, Database Management | 3 |
| CIT 3413, Big Data for Business | 3 |
| CIT 3423, Data Visualization for Business | 3 |
| CIT 3603, Systems Analysis and Design | 3 |
|  CIT 3663, Data Mining for Business | 3 |
| CIT 4453, E-Commerce Business Strategies  | 3 |
| CIT 4623, Information Systems Security | 3 |
| CIT 4633, AI Business Strategies  | 3 |
| CIT 4653, IoT and Blockchain Business Strategies  | 3 |
| CIT 4663, Enterprise Resource Planning | 3 |
| CIT 4853, Project Management | 3 |
| **Sub-total** | **42** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **1** |
| **Total Required Hours:** | **120** |

**Appendix A, 8-Semester Plan**

*Instructions: Please identify new courses in italics*.

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| **Degree: Bachelor of Science** |

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| **Major: Information Systems & Data Analytics** |
|  **2021-2022** |
|  |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, ACCUPLACER) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.**  A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree. |
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|  |
| **Year 1** |   | **Year 1** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **BIOL 1003** | Biology | **3** | X |   | **ART or MUS or THEA 2503** | Fine Arts Visual, Musical, or Theatre | **3** | X |  |
| **BIOL 1001** | Biology Lab | **1** | X |   | **ENG 1013** | Composition II | **3** | X |  |
| **BUSN 1003** | Making Connections in Business (FYE) | **3** | X |   | **MATH 2143** | Business Calculus | **3** | X |  |
| **CIT 1503** | Microcomputer Applications | **3** |   |   | **PHSC 1203** | Physical Science | **3** | X |  |
| **ENG 1003** | Composition I | **3** | X |   | **PHSC 1201** | Physical Science Lab | **1** | X |  |
| **Elective** | Elective | **1** |   |   | **Social Science Course** | Pick one of the following: ANTH 2233, CMAC 1003, ECON 2333, GEOG 2613, HIST 1013, HIST 1023, POSC 1003, PSY 2013, SOC 2213 | **3** | X |  |
| **Total Hours** |   | **14** |   |   | **Total Hours** |   | **16** |   |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year 2** |   | **Year 2** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **ACCT 2033** | Intro to Financial Accounting | **3** |   |   | **ACCT 2133** | Intro to Managerial Accounting | **3** |   |  |
| **COMS 1203** | Oral Communications | **3** | X |   | **CIT 2523** | Telecommunications Essentials | **3** |   |  |
| **ECON 2313** | Principles of Macroeconomics | **3** | X |   | **ECON 2323** | Prin of Microeconomics | **3** |   |  |
| **ENG 2003 orENG 2013 or PHIL 1103** | World Literature I, World Literature II, or Intro to Philosophy  | **3** | X |   | **ECON 2113 orSTAT 3233** | Business Statistics or Applied Statistics | **3** |   |  |
| **HIST 2763 orHIST 2773 or POSC 2103** | US History to 1876, US History from 1876, or Intro to US Gov. | **3** | X |   | **LAW 2023** | Legal Environment Business | **3** |   |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **15** |   |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year 3** |   | **Year 3** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **CIT 2033** | Programming Fundamentals | **3** |   |   | **BCOM 2563** | Business Communications | **3** |   |  |
| **CIT 3013** | Management Information Systems | **3** |   |   | ***CIT 3423***  | *Data Visualization for Business* | **3** |   |  |
| **CIT 3403** | Database Management | **3** |   |   | **CIT 3413** | Big Data for Business | **3** |   |  |
| **CIT 3553** |  Foundation of Business Analytics | **3** |   |   | **CIT 3603** | Systems Analysis & Design | ***3*** |  |  |
| **MKTG 3013** | Marketing | **3** |   |   | **FIN 3713** | Business Finance | **3** |   |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **15** |   |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year 4** |   | **Year 4** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **CIT 4653** |  IoT and Blockchain Business Strategies | **3** |   |   | **CIT 4853** | Project Management | **3** |   |  |
| **CIT 3353** | Mobile Apps for Business | **3** |   |   | **CIT 4623** | Information Systems Security | **3** |   |  |
| ***CIT 4633*** |  *AI Business Strategies* | **3** |   |   | **CIT 4453** | E-Commerce Business Strategies | **3** |   |  |
|   |  |
| ***CIT 4663*** | *Enterprise Resource Planning* | **3** |   |   | **CIT 3663** |  Data Mining for Business | **3** |   |  |
| **MGMT 3123** | Principles of Management | **3** |   |   | **MGMT 4813** | Strategic Management | 3 |   |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **15** |   |  |
|   |   |  |   |  |   |   |   |   |  |
|  |  |  |  |  |  | **Total Jr/Sr Hours:** | **54** |  |
|  |  |  |  |  |  | **Total Degree Hours:** | **120** |  |
| **Graduation Requirements:** |   |   |   |   |   |   |   |  |
| Completion of HIST 2763 or HIST 2773 or POSC 2103  |  |
| English Proficiency (Grade of C or better in ENG 1003 and ENG 1013) |  |
| 2.25 in major and at least a "C" in each course within this specific area of the degree. |  |
| 2.25 overall and at least 2.00 GPA at ASU |  |
| 2.25 in business core or at least a "C" in each course.  |  |
| 50 % of business requirements completed at ASU-Jonesboro |  |
| Maximum of 30 credit hours via correspondence, extension, examination, PLA, Military or similar means; CLEP (30 hrs max)  |  |
| 45 JR/SR Hours ***after completing 30 hours*** |  |
| 120 Total Credit Hours |  |
| 30 of last 36 hours at ASU-Jonesboro |  |
| Minimum of 57 hours from 4-year institutions |  |
| 32 ASU residence hours |  |
| Must have grade of C or better in MATH 2143, ACCT 2033, and CIT 1503 |  |