Code #BU12

**Bulletin Change Transmittal Form**

**Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

**Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](http://graduateschool.astate.edu/mmcginnis@astate.edu)

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| **Bulletin Change**  Please attach a copy of all catalogue pages requiring editorial changes. | |
| J.K. Sinclaire April 5, 2013  Department Curriculum Committee Chair Date | COPE Chair (if applicable) Date |
| Department Chair Date | General Education Committee Chair (if applicable) Date |
| College Curriculum Committee Chair Date | Undergraduate Curriculum Council Chair Date |
| College Dean Date | Graduate Curriculum Committee Chair Date |
|  | Vice Chancellor for Academic Affairs Date |
|  |  |
|  | |
| **1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)  John Seydel, ASU / CIT Department, Box 130 State University, jseydel@astate.edu, (870) 680-8072 | |
| **2. Proposed Change**  Pages 138, 139, 140, 141, and 408; modify title and description of CIT 2033 to the following.  Programming Fundamentals: An introduction to Windows programming using Microsoft Visual Studio or a similar integrated development environment. Students learn to write programs using an object oriented programming language and incorporating sequence, selection, and repetition structures. Prerequisite: Completion of computer proficiency requirements. Fall. | |
| **3. Effective Date**  Immediately | |
| **4. Justification**  Industry preferences for programming languages change, and it is important to stay current in providing our IT/IS students with training in whatever language best prepares them for the careers these students might wish to pursue. For example, currently the vast majority of application development is for the mobile device market, and Java, C#, and Objective C are the languages used for such applications. Removing the “Visual Basic” specifications from the course name and description will provide us with the flexibility needed in order teach our students programming in languages such as C#, a .Net language well-supported by Visual Studio, the integrated development environment we (along with a good number of application developers) currently use. | |

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

**Current Page 408:**

**Computer Information Technology (CIT)**

**CIT 1503. Microcomputer Applications** Students will learn basic computer skills that can be used immediately, throughout college, and beyond. Emphasis on learning basic office applications in word processing, spreadsheets, databases, and presentation graphics. Fall, Spring.

**~~CIT 2033. Visual Basic Programming~~** ~~An introduction to Windows programming using Microsoft Visual Basic.NET. Students learn the concepts needed to write programs using an object oriented programming language. Completion of computer proficiency requirements required. Fall.~~

**CIT 2413. Word Processing I** Introduction to word processing concepts and applications. Prerequisite, Ability to keyboard. Fall.

**CIT 2523. Telecommunications and Networking Essentials** This course will examine basic networking fundamentals. These include networking media, connectivity, devices, telecommunica­tions protocols, and different networking models. Spring.

**CIT 2543. Keyboarding for Professionals** Covers entry level and advanced level job simula­tions in legal, medical, technical, accounting, and other firms. Summer.

**CIT 3013. Management Information Systems** Provides understanding of information needs of management, information technology used by various business subsystems, and how technology can be utilized for competitive advantage. Fall, Spring, Summer.

**NOTE: Satisfying the College of Business computer proficiency requirement is a prerequisite, AND CIT 3013 is a prerequisite or corequisite for ALL upper-level CIT courses.**

**CIT 3033. Advanced Visual Basic Programming** Second course in Visual Basic programming with emphasis on creating multiple document applications, classes, active server pages, ADO.NET, and reading and writing files. Prerequisite, CIT 2033. Spring.

**CIT 3353. Web Site Design and Development** Web application development to build web pages for use with various browsers. Includes markup languages, style sheets, client/server side scripting, and related technologies. Prerequisite: Programming course with a grade of C or better. Fall - Even Years.

**CIT 3403. Database Management** Enterprise-wide database theory and SQL with the use of industry standard DBMS, such as MySQL, Oracle, or SQL Server. Fall.

**CIT 3413. Advanced Database Management** Extends the coverage of CIT 3403 using a popular DBMS. Topics include client applications, object oriented database development, and data security. Prerequisite, CIT 3403. Spring.

**CIT 3523. Operations Management** Introduction to the operations function in manufacturing and services. Emphasis on continual improvement of systems for producing goods and services. Prerequisite, ECON 2113. Fall, Spring, Summer.

**CIT 3533. Microcomputer Applications II** Continuation of CIT 1503 to cover topics in the area of operating systems, word processors, spreadsheets, presentation techniques, and PC databases. Prerequisite, CIT 1503 or demonstrated proficiency. Fall.

**CIT 3623. LAN Administration** Covers topics pertinent to the administration of a local area network. Topics include, user management, file management, security, and network printing. Pre­requisite, Computer literacy. Fall.

**CIT 3663. Data Mining** Theory and practice of knowledge discovery in databases (KDD) with emphasis on predictive modeling and model evaluation using computer software such as SAS to perform data mining. Prerequisite ECON 2113 or approval of instructor. Fall - Odd Years.

**Change highlighted section to:**

**CIT 2033. Programming Fundamentals** An introduction to Windows programming using Microsoft Visual Studio or a similar integrated development environment. Students learn to write programs using an object oriented programming language and incorporating sequence, selection, and repetition structures. Prerequisite: Completion of computer proficiency requirements required. Fall.

**Current Page 138:**

**Major in Computer and Information Technology**

**Bachelor of Science**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

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| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 40)  *(For College of Business requirements, see p. 131)* | |
| **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. 82)  **Students with this major must take the following:**  *ECON 2313, Principles of Macroeconomics*  *MATH 2143, Business Calculus with a “C” or better.*  *SCOM 1203, Oral Communications (Required Departmental Gen. Ed. Option)*  *SOC 2213, Introduction to Sociology* ***OR***  *ANTH 2233, Introduction to Cultural Anthropology* | **35** |
| **College of Business Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Business Section) | **39** |
| **Major Requirements:**  Grade of “C” or better required for all Major Requirements | **Sem. Hrs.** |
| ~~CIT 2033, Visual Basic Programming~~ | 3 |
| CIT 2523, Telecommunications and Networking Essentials | 3 |
| CIT 3403, Database Management | 3 |
| CIT 4453, Global E-Commerce | 3 |
| CIT 4653, Automatic Data Capture | 3 |
| CIT 4853, IT Project Management | 3 |
| **Select five of the following:**  CIT 3033, Advanced Visual Basic Programming  CIT 3353, Web Site Design and Development  CIT 3413, Advanced Database Management  CIT 3623, LAN Administration  CIT 3663, Data Mining  CIT 3853, Computer Forensics  CIT 4013, Advanced LAN Administration  CIT 409V, Special Problems in CIT  CIT 4623, Computer Security  CIT 4863, Current Topics in CIT  CIT 4883, Internship in CIT | 15 |
| **Sub-total** | **33** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **10** |
| **Total Required Hours:** | **120** |

**Change highlighted section to:**

CIT 2033, Programming Fundamentals

**Current Page 139:**

**Minor in Computer and Information Technology**

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| **Required Courses:**  Students must maintain a minimum GPA of 2.25 or a grade of at least a “C” for each course in the minor. | **Sem. Hrs.** |
| ~~CIT 2033, Visual Basic Programming~~ | 3 |
| CIT 2523, Telecommunications and Networking Essentials | 3 |
| CIT 3013, Management Information Systems | 3 |
| CIT 4453, Global E-commerce | 3 |
| CIT 4653, Automatic Data Capture | 3 |
| CIT 4853, IT Project Management | 3 |
| **Total Required Hours:** | **18** |

**Minor in Electronic Commerce**

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| **Required Courses:**  Students must maintain a minimum GPA of 2.25 or a grade of at least a “C” for each course in the minor. | **Sem. Hrs.** |
| CIT 3353, Web Site Design and Development **OR**  JOUR 4373, Internet Communications | 3 |
| CIT 3403, Database Management | 3 |
| CIT 4453, Global E-Commerce | 3 |
| MKTG 3013, Marketing **OR**  MKTG 3163, Supply Chain Management | 3 |
| **Select two of the following:**  CIT 2033, Visual Basic Programming  CIT 4883, Internship (in area in E-Commerce) **OR**  MKTG 4283, Internship  JOUR 3673, Digital Design | 6 |
| **Total Required Hours:** | **18** |

**Change highlighted sections to:**

CIT 2033, Programming Fundamentals

**Current Page 140:**

**ASSOCIATE OF SCIENCE IN COMPUTER AND INFORMATION TECHNOLOGY**

All candidates for an Associate Degree in the College of Business must satisfy the University Re­quirements for all Associate Degrees (refer to index for page reference), as well as the specific degree requirements listed under the CIT major.

**Major in Computer and Information Technology**

**Associate of Science**

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| **University Requirements:** | |
| See University General Requirements for Associate degrees (p. 40) | |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Associate of Science Degrees (p. 83)  **Students with this major must take the following:**  *ANTH 2233, Introduction to Cultural Anthropology* ***OR***  *SOC 2213, Introduction to Sociology*  *ECON 2313, Principles of Macroeconomics*  *SCOM 1203, Oral Communications* | **35** |
| **Major Requirements:** | **Sem. Hrs.** |
| ACCT 2033, Introduction to Financial Accounting | 3 |
| CIT 1503, Microcomputer Applications  *Requirement can be satisfied by successful completion of a similar course or by passing the College of Business Computer Proficiency Exam* | 3 |
| ~~CIT 2033, Visual Basic Programming~~ | 3 |
| CIT 2523, Telecommunications and Networking Essentials | 3 |
| CIT 3013, Management Information Systems | 3 |
| CIT 3403, Database Management | 3 |
| CIT or CS Electives  *CS 1013 may not be used to satisfy this requirement.* | 6 |
| **Sub-total** | **24** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **1** |
| **Total Required Hours:** | **60** |

**Change highlighted sections to:**

CIT 2033, Programming Fundamentals

**Current Page 141:**

**Certificate in Business Information Systems (BIS)**

The BIS program is intended to deliver training that provides foundation working knowledge in infor­mation technology. The resulting certificate is independent of any degree program and can be used either to enhance whatever degree is being pursued by the student or to demonstrate IT accomplishments of the non-degree-seeking student. For the latter, the BIS certificate incorporates a basic communications component, a Business foundation component, and a strong basic IT component.

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| **Requirements:** | |
| **Communications Component** | **Sem. Hrs.** |
| ENG 1003, Composition I | 3 |
| ENG 1013, Composition II | 3 |
| **Business Knowledge Component** | **Sem. Hrs.** |
| ACCT 2033, Introduction to Financial Accounting | 3 |
| Business Electives | 6 |
| **Information Technology Component** | **Sem. Hrs.** |
| CIT 1503, Microcomputer Applications | 3 |
| ~~CIT 2033, Visual Basic Programming~~ | 3 |
| CIT 3403, Database Management | 3 |
| **Total Required Hours:** | **24** |

**Change highlighted sections to:**

CIT 2033, Programming Fundamentals