Code #BU06

**Bulletin Change Transmittal Form**

**[x]  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%40astate.edu)

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| **Bulletin Change** Please attach a copy of all catalogue pages requiring editorial changes.  |
| 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 |
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| **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 137 and 408; modify title and description of CIT 3033 to the following.Intermediate Programming: Follow-up course for CIT 2033 (Programming Fundamentals). Uses whatever language is used the previous semester in CIT 2033. Emphasis is on array processing, multiple document applications, database interactivity, and programmer-written functions and classes. Prerequisite, C or better in previous course of same language. Spring. |
| **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 to 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. 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.

**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. Prerequisite, Keyboarding I or equivalent. Summer. (ACTS#: BUSI 1103)

**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, C or better in CIT 2033. Spring.

**CIT 3353. Mobile and Web Applications Development** Development of web and mobile ap­plications from design to deployment. Includes markup, client-side and server side, stylesheet, and related languages, as well as associated development technologies. Prerequisite, programming course with a grade of C or better. Fall, even.

**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, C or better in 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 3033. Intermediate Programming** Follow-up course for CIT 2033 (Programming Fundamentals). Uses whatever language is used the previous semester in CIT 2033. Emphasis is on array processing, multiple document applications, database interactivity, and programmer-written functions and classes. Prerequisite, C or better in previous course of same language. Spring.

**Current Page 137:**

**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:** *MATH 2143, Business Calculus with a “C” or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*  | **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, Programming Fundamentals  | 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, Mobile and Web Applications 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 3033, Intermediate Programming