# Computer Science Courses for Non-majors

## Fall 2003

<table>
<thead>
<tr>
<th>If you have passed the course in this column</th>
<th>Then you can enroll in the course in this column during Fall 2003 or thereafter</th>
</tr>
</thead>
</table>
| A106 or I101                                 | A107 Programming Within Applications (4 cr.)  
For those who want to extend their knowledge of Office applications beyond A106 and also get a gentle introduction to programming and writing macros within MS Office applications.  
A290 Adventures in Computing (1 cr.)  
This is a 1 credit course designed for those who have taken A106 and are interested in an informatics major. Please contact Dr. Ruth Schwartz for details. (ruschwar@iusb.edu) 237-4816.  
A201 - Introduction to Programming I (4 cr.)  
If you want to learn programming but are not majoring in computer science. (Programming in Visual Basic).  
C101 - Computer Programming I (4 cr.)  
If you are working toward a major in computer science or you are just interested in programming in C++. This courses counts toward a computer science or informatics major |
| C101 or C201                                 | A107 Programming Within Applications (4 cr.)  
For those who want to extend their knowledge of Office applications beyond A106 and also get a gentle introduction to programming and writing macros within MS Office applications.  
A201 - Introduction to Programming I (4 cr.)  
If you want to learn programming but are not majoring in computer science. (Programming in Visual Basic).  
C151 Multiuser Operating Systems (2 cr.) for those who want to learn more about operating systems concepts and the Linux environment, utilities, etc. This courses counts toward a computer science or informatics major |

See below for course descriptions, or consult the computer science web site for detailed syllabi.

[www.cs.iusb.edu](http://www.cs.iusb.edu)
Computer Science Courses for non-majors
Course Descriptions

A106 Introduction to Computing (3 cr.)
Fundamentals of computer hardware and software; use of packaged programs in areas such as
word processing, spreadsheets, database management, communications, graphics; the role and
impact of computers in society. Course is designed for people with little or no computer
experience. One class per week is spent in the microcomputer teaching laboratory.

A107 Programming Within Applications (4 cr.)
P: A106 or equivalent. Advanced study and use of the productivity suites (i.e. Word, Excel,
Outlook, Access, PowerPoint) an emphasis on programming within applications (i.e. VBA) and
database design and development. Basic concepts of programming logic, principles and
techniques will be studied. The course will also discuss the Windows operating system as well as
the design, construction and publishing of web pages.

A201 - Introduction to Programming I (4 cr.)
R: M014, A106. Fundamental programming constructs, including loops, arrays, classes, and
files. General problem-solving techniques. Emphasis on modular programming, user-interface
design, and developing good programming style. Not intended for computer science majors. (VB
or Java).

C101 Computer Programming I (4 cr.)
P: M014 or equivalent. Fundamental concepts of algorithm development, modularity and
program design, computer programming. The programming language used will be C++. [An
exemption exam is available to students who already have some knowledge of C++]

C151 Multiuser Operating Systems (2 cr.)
R: C101. Survey of the operating system facilities and commands. Installation and maintenance
of operating systems such as Linux. Understanding process management, file systems, memory
and virtual memory management issues. Understanding networking and its role in modern
computing environment. Operating system security. Writing shell scripts and batch files