

Fayetteville State University
College of Basic and Applied Sciences
Department of Mathematics and Computer Science
CSC 104 – 01, Introduction to Computer Science for Non-Technical Majors
Fall 2009

I. Locator Information:

Instructor: Dr. Michael Almeida

Course # and Name: CSC104 – 01, Introduction to Computer Science

Office Location: SBE 340

Semester Credit Hours: 3.00

Office hours: M: 2:00 – 5:00 pm; W: 12:00 – 2:00 pm

Day and Time Class Meets: TR 12:30 – 1:45pm

TR: 11:00 pm – 12:30 pm

Class Location: SBE 221

Other hours by appointment

Total Contact Hours for Class: 46 hours

Office Phone: 910-672-1161

Email address: malmeida@uncfsu.edu

FSU Policy on Electronic Mail: Fayetteville State University provides to each student, free of charge, an electronic mail account (username@uncfsu.edu) that is easily accessible via the Internet. The university has established FSU email as the primary mode of correspondence between university officials and enrolled students. Inquiries and requests from students pertaining to academic records, grades, bills, financial aid, and other matters of a confidential nature must be submitted via FSU email. Inquiries or requests from personal email accounts are not assured a response. The university maintains open-use computer laboratories throughout the campus that can be used to access electronic mail.

Rules and regulations governing the use of FSU email may be found at
<http://www.uncfsu.edu/PDFs/EmailPolicyFinal.pdf>

Note: In case FSU must close for an emergency during the semester, instruction will continue using Blackboard.

II. Course Description: This course explores topics of computer science for non-technical majors. The course covers the fundamental issues of networking, HTML, data representations, computers, algorithms, and programming. Students receive a solid grounding in the central concepts as well as in important uses of computing and information technology.

Prerequisite: none.

III. Disabled Student Services: In accordance with Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ACA) of 1990, if you have a disability or think you have a disability to please contact the Center for Personal Development in the Spaulding Building, Room 155 (1st Floor); 910-672-1203.

IV. Textbook:

Synder, Lawrence, Fluency with Information Technology, Skills, Concepts, & Capabilities, Third Edition, Boston: Addison-Wesley, 2008, ISBN: 0-321-51239-1.

V. Student Learning Outcomes:

Upon completion of this course, students will be able to:

1. Engage in sustained reasoning, manage complexity and test a solution.
2. Find problems with the faulty use of Computer Science (CS)/Information Technology (IT).
3. Navigate a collection and assess the quality of information.
4. Collaborate using CS/IT.
5. Communicate using CS/IT.
6. Anticipate technological change.
7. Think abstractly about CS/IT.
8. Explain how information is represented digitally.
9. Explain how multimedia experiences are created through computers.
10. Explain the fundamental steps in computer hardware operations.
11. Organize/structure information using a computer.
12. Use basic operating system facilities.
13. Use a spreadsheet to model a simple process.
14. Use database to access information.
15. Use HTML and Javascript to create simple webpages.

VI. Course Requirements and Evaluation Criteria

a. Grading Scale –

Grade	Total point range	Credit Hours	Quality Points	Meaning
A	90% – 100%	Hours attempted and earned	4 per credit hour;	Exceptionally high
B	80% – 89%	Hours attempted and earned	3 per credit hour	Good
C	65% – 79%	Hours attempted and earned	2 per credit hour	Satisfactory
D	55% – 64%	Hours attempted and earned	1 per credit hour	Marginally passing
F	below 55%	Hours attempted – Not earned	0 per credit hour	Failing
FN		Hours attempted – Not earned	0 per credit hour	Failing due to non-attendance. (Student registered, but <u>never</u> attended.)
W		Hours attempted – Not earned	No impact on GPA	Class withdrawal prior to deadline (see Academic Calendar)
P		Hours attempted and earned	No impact on GPA	Satisfactory - Assigned only in classes specified as Pass/Fail
WU		Hours attempted – Not earned	No impact on GPA	Withdrawal from all classes for semester or term
AU		Hours attempted – Not earned	No impact on GPA	Auditing

- b. Attendance Requirements – Students are expected to attend all class meetings, laboratories, and other instructional sessions for this course. Students are also expected to arrive to class

on time and remain in class for the entire scheduled period. When students must miss class(es) for unavoidable reasons, i.e., illness, family emergencies, or participation in official university sponsored activities – they are responsible for informing faculty of the reasons for the absences, in advance if possible. Missed assignments, labs, quizzes and exams can only be made up for by explicit permission from the instructor. In order to receive this permission the student has to provide convincing evidence (e.g. doctor's note) that the absence was due to an unavoidable reason. During the first half of the semester/term, faculty will assign an interim grade of "EA," Excessive Absences, for students whose class absences exceed 10% of the total contact hours for the class. Students who receive EA interim grades must either withdraw from the class or resume attendance. Students who resume attendance must consult with the instructor about completion of missed assignments. The EA is not a final grade, so students who are assigned an interim grade of EA, but do not withdraw from the class, will receive a final grade based on the evaluation criteria for the class. **Please note that the WN grade is no longer in effect. Students must not expect faculty to withdraw them from classes. For more information about this and the new 'X' grade please read the attached document (last page of syllabus) titled "Revision of grades – student responsibilities".**

- c. Graded Assignments and Value of Each Assignment –
 - i. Three tests worth 10% each for a total of 30%
 - ii. Six projects worth 10% each for a total of 60%
 - iii. Class attendance and participation worth 10%
- d. Policy on Missed or Late Assignments - tests and quizzes missed due to an unavoidable reason can be made up only with the instructor's permission. In order to receive this permission the student has to provide convincing evidence (e.g. doctor's note) that the absence was due to an unavoidable reason. There is a penalty of 5% for each day a project is overdue. Project submissions that are more than a week overdue will not be accepted for grading.

Please note: If these evaluation criteria must be revised because of extraordinary circumstances, the instructor will distribute a written amendment to the syllabus.

Student Behavior Expectations: -The instructor will respect all students and will make every effort to maintain a classroom climate that promotes learning for all students. Students must accept their responsibility for maintaining a positive classroom environment by abiding by the following rules:

1. Students are expected to arrive to class on time, remain in class until dismissed by the instructor, and refrain from preparing to leave class until it is dismissed.
2. Student/teacher relationships, as well as relationships among peers, must be respectful at all times.
3. Students are not permitted to wear headphones or other paraphernalia that may be distracting to the classroom environment.
4. Students must refrain from any activity that will disrupt the class; this includes turning off cell phones and pagers.
5. Students are not permitted to use profanity in the classroom.
6. Students will not pass notes or carry on private conversations while class is being conducted.

Consequences for Failing to Meet Behavioral Expectations: The first time a student violates one of these rules, the instructor will warn him or her privately, either after class or before the next class. (Faculty members reserve the right to warn students publicly if needed.) The second time a student violates the guidelines, the instructor may deduct as many as twenty points from the student's next exam grade. If a student violates the guidelines three times, the instructor will report the student to the Dean of Students for disciplinary action according to the FSU Code of Student Conduct.

VII. Academic Support Resources – Apart from FSU Blackboard this course will use the student resources webpage for the textbook

http://wps.aw.com/aw_snyder_fluency_2/0,10715,2287950-,00.html for materials that supplement the textbook and lecture notes. Students should regularly access FSU Blackboard and the student resources website to stay current in this course.

VIII. Course Outline and Assignment Schedule*

WEEK	LECTURE TOPICS & ACTIVITIES	ADDITIONAL COMMENTS
FIRST DATES: 08/20 – 08/21	FIRST DAY OF CLASS. INTRODUCTION, COURSE OVERVIEW.	LATE REGISTRATION BEGINS 08/20 CLASSES BEGIN 08/20
SECOND DATES: 08/24 – 08/28	CHAPTERS 3, 5	CLASS WITHDRAWAL BEGINS AND LAST DAY FOR DROP-ADD AND LATE REGISTRATION IS 08/26 INTERIM GRADING PERIOD BEGINS 08/27. FACULTY ASSIGN GRADES OF X (NO SHOW); EA (EXCESSIVE ABSENCES); F (FAILURE)
THIRD DATES: 08/31 – 09/04	CHAPTER 4	DEADLINE FOR X (NO-SHOW) GRADES. FACULTY ASSIGN X GRADE TO STUDENTS ON CLASS ROSTER, BUT WHO HAVE NEVER ATTENDED 09/01
FOURTH DATES: 09/07 – 09/11	CHAPTER 8	LABOR DAY HOLIDAY 09/07
FIFTH DATES: 09/14 – 09/18	CHAPTER 9	FALL CONVOCATION 09/15, 2:15 TO 3:30 PM
SIXTH DATES: 09/21 – 09/25	EXAM 1 CHAPTER 11	
SEVENTH DATES: 09/28 – 10/02	CHAPTER 12	
EIGHTH DATES: 10/05 – 10/09	CHAPTER 13	MID TERM EXAMINATIONS BEGIN ON 10/08 INTERIM GRADING PERIOD ENDS. FACULTY ASSIGN INTERIM GRADES TO SHOW STUDENT STATUS AT

		MIDTERM 10/09
NINTH DATES: 10/12 – 10/16	CHAPTER 14	MID TERM EXAMINATIONS END ON 10/14 MID TERM BREAK FROM 10/15 TO 10/16
TENTH DATES: 10/19 – 10/23	CHAPTER 15	
ELEVENTH DATES: 10/26 – 10/30	EXAM 2 CHAPTER 10	DEADLINE FOR REMOVING INCOMPLETE GRADES FROM PREVIOUS SEMESTER AND WITHDRAWAL FROM CLASS IS 10/30
TWELFTH DATES: 11/02 – 11/06	CHAPTER 18	
THIRTEENTH DATES: 11/09 – 11/13	CHAPTER 19	VETERAN'S DAY HOLIDAY 11/11
FOURTEENTH DATES: 11/16 – 11/20	CHAPTER 20	DEADLINE FOR UNIVERSITY WITHDRAWAL ON 11/18
FIFTEENTH DATES: 11/23 – 11/27	CHAPTER 21	THANKSGIVING HOLIDAY 11/26 TO 11/27
SIXTEENTH DATES: 11/30 – 12/04	REVIEW	FINAL EXAMS FOR GRADUATING SENIORS BEGIN ON 11/30 TO 12/05 LAST DAY OF CLASSES IS 12/04
SEVENTEENTH DATES: 12/07 – 12/11	FINAL EXAM	FINAL GRADES FOR GRADUATING SENIORS DUE ON 12/07 FINAL EXAMS FOR STUDENTS NOT GRADUATING 12/05 TO 12/11

* This schedule is subject to change for the optimum benefit of the class as a whole. Therefore it is important to stay alert, read your email and read the discussion boards regularly.

IX. Teaching Strategies: Both lectures and labs are used to teach the course. Topics covered in this course can only be learned by practice so labs are an important component of this course.

X. Bibliography

1. Preston Gralla. How the Internet Works, 7th edition. Que, 2003. ISBN: 0789729733.

2. Ron White and T. E. Downs. How Computers Work, 8th edition. Que, 2005. ISBN: 0789734249.
3. Dan Appleman. How Computer Programming Works. Apress, 2000. ISBN: 1893115232.
4. F. J. Derfler and L. Freed. How Networks Work, 7th edition. Que, 2004. ISBN: 0789732327.
5. Herbert Schildt. Java: The Complete Reference, J2SE 5th edition. McGraw-Hill Osborne Media, 2004. ISBN: 0072230738.
6. Thomas Powell. HTML & XHTML: The Complete Reference, 4th edition. McGraw-Hill Osborne Media, 2003. ISBN: 007222942X.
7. Thomas Powell. Javascript: The Complete Reference, 2nd edition. McGraw-Hill Osborne Media, 2004. ISBN: 0072253576
8. Joshua Bloch. Effective Java Programming Language Guide, 1st edition. Addison-Wesley Professional, 2001. ISBN: 0201310058.