



CIT-115: Intro to Information Systems

Syllabus | Spring 2020 | West Hills Sec 31
Mondays & Wednesdays 8:00 - 9:30 am

instructor:	Eric C. Darsow CCAC North/West computer department Faculty Instructor
office Hours:	West: Mon/Wed 2:45pm - 3:30pm
semester:	Spring 2020
instructor Contact methods:	In-person preferred, followed by phone calls: 412.894.3020 Please do not email unless doing so is a special electronic mail use case as described on course website
CCAC CIT/DAT department: contact	Cathy Stewart 412.369.4107 1000 McKee Road Oakdale, PA 15071
CIT/DAT department chair:	Professor Rebecca Elinich relinich@ccac.edu
course Credits:	4.0
prerequisites:	Basic skills using a personal computer and operating system, eligibility for MAT 090.

I: Course Description:

This course explores technical issues involved with computers and information technology. Topics include computer hardware and components, operating systems, file storage, networking fundamentals, digital media, database systems, and the Internet structure and organization. Students research various information technology issues using the Internet and in-class or simulated lab exercises in a personal computer environment.

II: Learning Outcomes

The following content is extracted directly from the CCAC master course syllabus for CIT 115:

1. Identify major motherboard components, characteristics of CPUs, and various types of memory.
2. Describe the types of expansion slots and adapter cards, the role of buses in a computer's processing speed, and the differences among various input/output ports.
3. Explain the characteristics of various input devices (pointing devices, digital cameras, scanners, biometric devices) and output devices (monitors, printers, speakers).
4. Explain the characteristics of various storage devices (magnetic disks, optical disks, removable media, solid state).
5. Describe the functions of an operating system, how they control a network, how they administer security, various

- utilities, and the features of desktop and server operating systems.
6. Describe the structure of the Internet, how to access and connect to the Internet, the components of a URL and IP address, types of e-commerce, and how various services work.
7. Describe various network communications standards, communication media, communication devices, and network architectures (client/server, peer-to-peer).
8. Describe the advantages of a database approach and their various characteristics (relational, object-oriented, multi-dimensional).
9. Identify the uses of various programming languages and development tools.
10. Discuss the computer hardware needs and solutions for an enterprise, the importance of computer backup, and steps involved with a disaster recovery plan.
11. Describe types of malware, techniques to prevent unauthorized access, methods of encryption, and risks and safeguards associated with wireless communications.

III: The nitty gritty

textbook & materials	Course website: Master course website with session-specific content, submission portals, and assignment details: https://technologyrediscovery.net/#python2 No textbook required!
letter Grades	Drawing on completed work and contributions to our class learning environment, propose a fair letter grade and a justification at midterm and final times using a 3x5 card. https://technologyrediscovery.net/coursesGen/trgrading.html Attend the final session! Attendance at final session and sharing of <i>fully-baked</i> final project is required to sufficiently justify a grade proposal of A or B except for pre-approved absences and "urgent, incidental, overriding life events"
due date	Work submission and grade proposals will be accepted until Wednesday, 13 May 2020 @ morning light but no later.
attendance & tardiness	As a primarily in-class driven course, please try to attend 75-85% of sessions. We recognize that students face varied constraints which can differently impact feasibility of class attendance. <i>Tardiness shall not be considered a factor in attendance.</i>
tests:	No high-stakes tests! Low-stakes, mini assessments written on single note cards will help track learning.
technology	All necessary computers are supplied by CCAC in our lab classroom
Academic Honesty	Provide written credit to all relevant authors of all code, writing, and project work for this course, including yourself

	<p>and folks who help you (but who may not be published authors). Include direct URLs of websites consulted.</p> <p>Honor the copyrights associated with all content used in this course.</p> <p>Consequences: Students suspected of academic dishonesty will be asked to produce documentation to support any attributions (or, non-attributions).</p>
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	<p>Disabilities (OSSSD) or by visiting the OSSSD information page</p> <p>https://www.ccac.edu/supportive-services/suppotive.php</p>
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IV: Official CCAC notices

my. ccac. edu	<p>Students are reminded that they can access their course information and CCAC email account, the CCAC Academic Calendar (including add/drop/withdrawal deadlines), the Student Handbook, the College's Incident Report form, and many other College services through the MyCCAC portal: https://my.ccac.edu</p>
student handbook	<p>All students are expected to read and comply with the policies and regulations set forth in the CCAC Student Handbook, including without limitation the College's policies regarding academic and behavioral conduct, the procedures for requesting an accommodation based upon a disability, pregnancy or pregnancy related condition, or a religious observance, and for reporting unlawful discrimination and harassment.</p> <p>The Student Handbook is available to view and download along with the full text of the College's <i>Policy Manual</i>, <i>Administrative Regulations Manual</i>, and the Civil Rights Complaint Procedure:</p> <p>https://www.ccac.edu/academic-rules-and-regulations/rules-and-regulations.php</p> <p>https://www.ccac.edu/president/policies-and-regulations.php</p>
diversity	<p>Title IX of the Education Amendments 1972 (20 U.S.C. 1681 et seq.) and its implementing regulations, 34 C.F.R. Part 106, prohibit discrimination on the basis of sex in education programs or activities operated by recipients of Federal financial assistance. It is the landmark legislation that bans gender based discrimination in schools and colleges.</p> <p><i>"No person in the U.S. shall, on the basis of sex be excluded from participation in, or denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal aid."</i></p> <p>https://www.ccac.edu/diversity/title-IX.php</p> <p>https://www.ccac.edu/diversity/notices.php</p>
disability	<p>Information concerning the process and documentation required to request a disability-related accommodation can be obtained by contacting the campus' Office of Supportive Services for Students with</p>

V: Content licensing and sharing

licensing	<p>All non-computer code content on technologyrediscovery.net (course content, images, media) is licensed under the Creative Commons Share-Alike license (CC BY-SA 4.0); no attribution required.</p> <p>https://creativecommons.org/licenses/by-sa/4.0/</p> <p>Computer code is licensed by file; most course code is copylefted under the GNU Public License</p>	
contribute	<p>You are invited to anonymously contribute your work products in this course to the freely reusable <i>creative commons</i> educational material ecosystem made possible by copy left licenses. Any work contributed to this course will fall under this site-wide license scheme.</p>	
sharing elections	<p>Please review the sharing preference options and CHOOSE ONE by initialing and dating the bottom of the box. You may change these at any time by talking with your instructor.</p>	
A. Full participation:	B. Partial participation:	C. Non-participation:
You may anonymously store and reproduce my coursework in the <i>creative commons</i> (except for individual work pieces marked with a big X or "do not share" DNS)	I'm open to sharing but would like to release work individually upon instructor request (default no share). I will submit any work <i>I do not want shared as a</i> hard copy to my student folder.	I do not authorize the sharing of any of my coursework and will submit all my work hard copy to my student folder (never online).
init: ___ date: ___	init: ___ date: ___	init: ___ date: ___