ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CSC 1200 Orientation to IT Professions

Date: August 28, 2018

Credit Hours: 1

Prerequisite(s):   None

Delivery Method: ☒ **Lecture**   **1 Contact Hours** (1 contact = 1 credit hour)

☐ **Seminar**   **0 Contact Hours** (1 contact = 1 credit hour)

☐ **Lab**   **0 Contact Hours** (2-3 contact = 1 credit hour)

☐ **Clinical**   **0 Contact Hours** (3 contact = 1 credit hour)

☒ **Online**

☐ **Blended**

Offered: ☒ **Fall**   ☐ **Spring**   ☐ **Summer**

IAI Equivalent –*Only for Transfer Courses*-go to *http://www.itransfer.org*:

CATALOG DESCRIPTION:
This course enables students to analyze the Information Technology field and professions. Students will learn and research various areas of concentration within Information Technology as well as the necessary employment skills, local and national associations, current issues, salaries, skills, knowledge, and certifications recommended for the different employment options. The mode of instruction for this course may be lecture or web-based. Lecture, 1 hour per week.

GENERAL EDUCATION GOALS ADDRESSED

[See last page for Course Competency/Assessment Methods Matrix.]

Upon completion of the course, the student will be able:

[Choose up to three goals that will be formally assessed in this course.]

☐ To apply analytical and problem solving skills to personal, social, and professional issues and situations.

☒ To communicate successfully, both orally and in writing, to a variety of audiences.

☐ To construct a critical awareness of and appreciate diversity.

☐ To understand and use technology effectively and to understand its impact on the individual and society.

☐ To develop interpersonal capacity.

☐ To recognize what it means to act ethically and responsibly as an individual and as a member of society.

☐ To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.

☒ To connect learning to life.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals. See last page for more information.]

Upon completion of the course, the student will be able to:

1. Develop a basic understanding of the various concentrations and areas of Information Technology.
2. Describe the various concentrations and skills necessary within those specific areas
   2.a. Discuss the skillsets needed for the various areas and branches of IT.
   2.b. Discuss the certifications available for the different areas of IT.
   2.c. Discuss the average salaries for the various areas of IT.
3. Discuss the various roles of IT within different concentrations of the technology field.
   3.a. Understand which roles fall under which areas of IT.
   3.b. Identify the key competencies of IT professionals for employment in various roles of IT.
4. Understand how to keep up to date with the skills needed for a career in IT.
   4.a. Discuss the vendor certifications in the IT industry.
   4.b. Discuss the expected growth in the various fields of IT.

MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS

[For each of the goals selected above, indicate which outcomes align with the goal.]

Goals	Outcomes
First Goal	
To communicate successfully, both orally and in writing, to a variety of audiences.	2. Describe the various concentrations and skills necessary within those specific areas. 　2.a. Discuss the skillsets needed for the various areas and branches of IT. 　2.b. Discuss the certifications available for the different areas of IT. 　2.c. Discuss the average salaries for the various areas of IT.

	3. Discuss the various roles of IT within different concentrations of the technology field.
	4. Understand how to keep up to date with the skills needed for a career in IT.
	    4.a. Discuss the vendor certifications in the IT industry.
	    4.b. Discuss the expected growth in the various fields of IT

Second Goal	

To connect learning to life.	1. Develop a basic understanding of the various concentrations and areas of Information Technology.
	2. Describe the various concentrations and skills necessary within those specific areas.
	    2.a. Discuss the skillsets needed for the various areas and branches of IT.
	    2.b. Discuss the certifications available for the different areas of IT.
	    2.c. Discuss the average salaries for the various areas of IT.
	3. Discuss the various roles of IT within different concentrations of the technology field.
	    3.a. Understand which roles fall under which areas of IT.
	    3.b. Identify the key competencies of IT professionals for employment in various roles of IT.
	4. Understand how to keep up to date with the skills needed for a career in IT.
	    4.a. Discuss the vendor certifications in the IT industry.
	    4.b. Discuss the expected growth in the various fields of IT.

COURSE TOPICS AND CONTENT REQUIREMENTS:
- The job roles within Computer Networking, Programming, Systems and Security
- National and/or local Labor Statistics and Salaries
- Vendor Certifications
- Job Descriptions for various roles

INSTRUCTIONAL METHODS:
- Lecture
- Video presentation
- Field Research

INSTRUCTIONAL MATERIALS:

None

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:
A= 90-100
B= 80-89
C= 70-79
D= 60-69
F=   0-59

OTHER REFERENCES:
https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-181.pdf

https://www.cisco.com/c/dam/en_us/training-events/employer_resources/pdfs/cert_skills_matrix.pdf

https://www.mercurysolutions.co/blog/vmware-certification-path-for-beginners

https://www.microsoft.com/en-us/learning/browse-all-certifications.aspx

Course Competency/Assessment Methods Matrix

(Dept/# Course Name)	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
For each competency/outcome place an "X" below the method of assessment to be used.																																
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.	Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D						
1. Develop a basic understanding of the various concentrations and areas of Information Technology.		X											X	X	X			X														
2. Describe the various concentrations and skills necessary within those specific areas.														X	X			X													X	X
2.a. Discuss the skillsets needed for the various areas and branches of IT.														X	X			X													X	X
2.b. Discuss the certifications available for the different areas of IT.		X												X	X			X													X	X
2.c. Discuss the average salaries for the various areas of IT.		X												X	X			X													X	X

Outcome	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
3. Discuss the various roles of IT within different concentrations of the technology field.	X			X						X	X	X			X																X	X
3.a. Understand which roles fall under which areas of IT.	X									X	X	X			X																X	X
3.b. Identify the key competencies of IT professionals for employment in various roles of IT.	X										X	X			X																X	X
4. Understand how to keep up to date with the skills needed for a career in IT.	X									X	X	X			X																X	X
4.a. Discuss the vendor certifications in the IT industry.	X									X	X	X			X																X	X
4.b. Discuss the expected growth in the various fields of IT.	X			X						X	X	X			X																X	X