

Careers in IT

Course Outcome Summary

Course Information

Organization	Madison Area Technical College
Developers	Ken McCullough, Lori Kelley
Development Date	8/1/2004
Revised Date	10/21/2005
Course Number	10-107-111
Instructional Level	Associate Degree
Potential Hours of Instruction	16
Total Credits	1

Description

Introduces students to the various careers available in the vast field of Information Technology and examines the Network Specialist, Programmer/Analyst, Web Programmer/Analyst, Computer Systems Administration Specialist and Security Specialist career paths. Students create an individualized career path plan as the capstone project for the course.

Target Population

Students who want to be introduced to the concepts and various career opportunities in Information Technology.

Types of Instruction

Instruction Type	Contact Hours	Credits
Classroom Presentation	16	1
Online Learning		

Textbooks

Gary B. Shelly, Thomas J. Cashman, Misty E. Vermaat. *Discovering Computers 2005: A Gateway to Information, Complete Edition*. Course Technology. 2004. **Edition:** 1st. **ISBN:** 0-619-25525-0. **Source:** www.course.com.

Learner Supplies

Any media player .

Exit Learning Outcomes

Core Abilities

- Communication
- Ethics
- Self-management

Competencies

A. Summarize the applications of computers in the workplace and in society

Linked Core Abilities

Communication

You will demonstrate your competence:

A.1. by participating in the class

A.2. by examination

Your performance will be successful when:

A.1. you enter into class discussions regarding applications of computer in the workplace and in society

A.2. you offer questions or comments during class regarding applications of computer in the workplace and in society

A.3. you engage in the electronic learning forum

A.4. you offer questions or comments via Blackboard regarding applications of computer in the workplace and in society

A.5. you attend class regularly

A.6. you arrive for class on time

A.7. you listen attentively during class

B. Examine computer careers and certifications in information system development, networking, IT security, and computer systems administration

Linked Core Abilities

Ethics

Self-management

You will demonstrate your competence:

B.1. by participating in the class

B.2. by completing a written individual summary assessment

B.3. by completing a written individual educational path plan

Your performance will be successful when:

B.1. you enter into class discussions regarding careers in information system development, networking, IT security, and computer systems administration

B.2. you offer questions or comments during class regarding careers in information system development, networking, IT security, and computer systems administration

B.3. you engage in the electronic learning forum

B.4. you offer questions or comments via Blackboard regarding careers in information system development, networking, IT security, and computer systems administration

B.5. you attend class regularly

B.6. you arrive for class on time

B.7. you listen attentively during class

B.8. written product fulfills a clear purpose

B.9. written product reflects accurate analysis of your individual goals and incorporation of technology changes

B.10. written product shows evidence of logical critical thinking

B.11. written product follows an effective organizational plan

B.12. written product follows prescribed format, meeting criteria for all components

B.13. written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage

C. Examine concepts in information system development

Linked Core Abilities

Communication

You will demonstrate your competence:

C.1. by participating in the class

C.2. by written examination

Your performance will be successful when:

C.1. you enter into class discussions regarding system program development, program development, and programming languages

C.2. you offer questions or comments during class regarding system program development, program development, and programming languages

C.3. you engage in the electronic learning forum

C.4. you offer questions or comments via Blackboard regarding system program development, program development, and programming languages

C.5. you attend class regularly

C.6. you arrive for class on time

C.7. you listen attentively during class

D. Examine concepts in networking careers

Linked Core Abilities

Communication

You will demonstrate your competence:

D.1. by participating in the class

D.2. by examination

Your performance will be successful when:

D.1. you enter into class discussions regarding networks and communication devices

D.2. you offer questions or comments during class regarding networks and communication devices

D.3. you engage in the electronic learning forum

D.4. you offer questions or comments via Blackboard regarding networks and communication devices

D.5. you attend class regularly

D.6. you arrive for class on time

D.7. you listen attentively during class

E. Examine concepts in IT security careers

Linked Core Abilities

Communication

You will demonstrate your competence:

E.1. by participating in the class

E.2. by written examination

Your performance will be successful when:

E.1. you enter into class discussions regarding computer security

E.2. you offer questions or comments during class regarding computer security

E.3. you engage in the electronic learning forum

E.4. you offer questions or comments via Blackboard regarding computer security

E.5. you attend class regularly

- E.6. you arrive for class on time
- E.7. you listen attentively during class

F. Examine concepts in computer systems administration careers

Linked Core Abilities

Communication

You will demonstrate your competence:

- F.1. by participating in the class
- F.2. by written examination

Your performance will be successful when:

- F.1. you enter into class discussions regarding operating systems, utility programs, and components of the system unit
- F.2. you offer questions or comments during class regarding operating systems, utility programs, and components of the system unit
- F.3. you engage in the electronic learning forum
- F.4. you offer questions or comments via Blackboard regarding operating systems, utility programs, and components of the system unit
- F.5. you attend class regularly
- F.6. you arrive for class on time
- F.7. you listen attentively during class

G. Discuss latest trends in IT

Linked Core Abilities

Ethics

You will demonstrate your competence:

- G.1. by participating in the class
- G.2. by writing critiques of various trend topic videos

Your performance will be successful when:

- G.1. you enter into class discussions regarding trends in IT
- G.2. you offer questions or comments during class regarding trends in IT
- G.3. you engage in the electronic learning forum
- G.4. you offer questions or comments via Blackboard regarding trends in IT
- G.5. you respond to other postings in Blackboard regarding trends in IT
- G.6. you arrive for class on time
- G.7. you attend class regularly
- G.8. you listen attentively during class
- G.9. critique includes a summary of the main ideas
- G.10. critique summary accurately represents the main ideas
- G.11. critique includes an explanation of your personal opinion
- G.12. critique includes both positive and negative comments
- G.13. personal opinion is specific
- G.14. personal opinion is supported with relevant facts and research
- G.15. critique is well organized
- G.16. critique is clear and concise
- G.17. critique evidences correct grammar, punctuation, and spelling