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ABSTRACT

A comparison is provided between general education core requirements and basic skills and competencies at the community college level in Illinois. First, general education core requirements from the Illinois Community College Board and South Suburban College are outlined related to communication; mathematics; humanities and fine arts; social and behavioral sciences; physical and life sciences; and computer literacy. A comparison is then presented of core competencies from Allegany Community College (ACC), the Secretary's Commission on Achieving Necessary Skills (SCANS) competencies, and core competencies/skills based on an April 10, 1992 Tech Prep report. The following competencies are detailed: (1) communications skills, including reading, writing, and speaking; (2) learning skills, including the effective use of information as an independent, self-directed learner; (3) critical thinking, including the analysis of facts through logical problem-solving analysis and synthesis; (4) interpersonal skills, including sensitivity, cooperation, collaboration and understanding of self and others; (5) computational and computer skills, including performance of basic calculations and use of a computer; (6) culture and society, including attitudes and skills required to understand cultural differences and an appreciation of the contributions of individuals to society; (7) science and technology, including an understanding of roles in society and impact on daily life and the environment; and (8) wellness, including an awareness, understanding, and appreciation of the components of a healthy lifestyle. Each competency includes a list of related activities showing mastery of the competency. (KP)

Using the SCANS Report to Develop AAS General Education Requirements

A Comparison of the Illinois Community College Board and South Suburban College General Education Core Requirements and of Basic Skills/Competencies provided by Allegany Community College, The SCANS Report, and The DAOES/COD Tech Prep Report

Presentation
Workforce 2000
February 1995
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GENERAL EDUCATION CORE

Communication

ICCB: Communication is the art of expressing and exchanging ideas in speech or writing. The complexities of modern life demand that individuals have a mastery of both oral and written communication skills. Therefore, the General Education Core Curriculum requires competency in both skills. To fulfill the requirement, students should satisfactorily complete two three-semester-credit-hour sequenced courses in written communication and one three-semester-credit-hour course in oral communications.

Because communication skills provide a foundation for success in later academic work, general education communication courses should be completed early in a student's degree program, and communication skills continue to be developed and refined across the undergraduate curriculum.

SSC: Core communication skills enable students to write and speak standard English in a grammatically correct, well organized and coherent manner for a variety of purposes; demonstrates an understanding of the various forms of significant literature; and demonstrates library/research skills.

Mathematics

ICCB: The mathematics component of general education focuses on quantitative reasoning to provide a base for developing a quantitatively literate college graduate. Every college graduate should be able to apply simple mathematical methods to the solution of real-world problems. A quantitatively literate college graduate should be able to:

- interpret mathematical models such as formulas, graphs, tables, and schematics, and draw inferences from them;
- represent mathematical information symbolically, visually, numerically, and verbally;
- use arithmetic, algebraic, geometric, and statistical methods to solve problems;
- estimate and check answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results; and
- recognize the limitations of mathematical and statistical models.

Courses accepted in fulfilling the general education mathematics requirement emphasize the development of the student's capability to do mathematical reasoning and problem solving in settings the college graduate may encounter in the future. General education mathematics courses should not lead simply to an appreciation of the place of mathematics in society, nor should they be merely mechanical or computational in character.

To accomplish this purpose, students should have at least one course at the lower-division level that emphasizes the foundations of quantitative literacy and, preferably, a second course that solidifies and deepens this foundation to enable the student to internalize these habits of thought.

SSC: After meeting the mathematics requirements, students will be able to demonstrate quantitative skills; demonstrate problem-solving skills; demonstrate a knowledge of basic mathematical principles; and demonstrate an understanding of the relationships between mathematics and other fields of endeavor.

The Humanities and Fine Arts

ICCB: Study in the humanities and fine arts develops an understanding of what it means to be human—the struggles and aspirations, comedies and tragedies, and achievements and failures of human beings; wrestles with the basic questions that confront all human beings in the course of their lives—identity, beauty, courage, love, truth, justice, and morality; and examines the dreams, traditions, and cultural expressions of peoples throughout time who have wrestled with these same questions. To understand what it means to be human, one must understand oneself in relation to the natural world and in relation to others, reflect on ideas and confront presuppositions from one's own and other cultures, and respond creatively.

Thus, study in the humanities and fine arts focuses on intellectual and cultural expression approached through historical, hermeneutic, cultural, and aesthetic investigations. Courses designed to fulfill the general education humanities and fine arts requirement involve students in the basic questions and substance of the humanities and fine arts, as well as in the methods used to approach these questions. Courses in philosophy, religious studies, literature, history, and the history and appreciation of the visual and performing arts, as well as interdisciplinary courses, are typically included among those considered part of a general education. Because critical thinking, investigation, and reflection are necessary to the study of the humanities and fine arts, these processes—as embodied in writing (essays and essay examinations) and speaking (oral presentations and discussion)—are a significant component of humanities and fine arts courses. Where appropriate, course readings and activities also reflect an awareness of the United States' multicultural inheritance: race, ethnicity, gender, and class.

SSC: Studies in the humanities expand a student's awareness of the human condition and appreciation of human needs, values and achievements by helping students to understand and build on past achievements of civilizations; assess information that is read, seen or heard; communicate effectively; and create or perform a work of verbal or non-verbal art.

Social and Behavioral Sciences

ICCB: Through the study in the social and behavioral sciences, students gain an appreciation of human continuity and change. Students learn to analyze the past, develop insight into contemporary social life, and understand the impact of individual and social actions on the future. Students are encouraged to develop a sense of responsibility toward humanity and the environment. Study in the social and behavioral sciences will help students to:

- gain insight into individual behavior,
- develop an understanding of their own society and the world as part of the larger human experience in time and place,
- analyze social, political, cultural, historical, and economic institutions and relationships that both link and separate societies throughout the world.
- develop analytical, critical thinking, and communication skills necessary to

understand and influence the world in which they live, and
- comprehend methods of inquiry employed by social and behavioral scientists.

Students are expected o complete satisfactorily a minimum of 3 courses (9 semester credit hours), selected from at least two disciplines, to fulfill the general education social and behavioral science requirement.

SSC: Given exposure to the Social and Behavioral Sciences, a student should be able to demonstrate knowledge of a variety of populations, cultures, and settings; and develop the ability to analyze, interpret and apply social and behavioral science knowledge in a variety of settings.

Physical and Life Science

ICCB: The purpose of the study of science is: (1) to develop students' understanding of the methods of scientific inquiry, including the formulation and testing of hypotheses, (2) to familiarize students with selected scientific principles in the physical and life sciences, and (3) to enable students to make informed decisions about personal and societal issues.

To achieve this purpose, students are expected to complete satisfactorily a minimum of two courses (7 to 8 semester credit hours) to fulfill the general education science requirement.

In order for students to understand the methods of scientific inquiry, including the development of the skills and disposition necessary to become independent inquirers about the natural world, at least one general education science course must include a laboratory component that meets a minimum of two hours per week in which students will be expected to:

1) formulate questions (hypotheses),
2) plan and conduct experiments (test hypotheses),
3) make systematic observations and measurements,
4) interpret and analyze data,
5) draw conclusions, and
6) communicate the results (orally and in writing).

In order for students to become familiar with selected scientific principles, at least one course must be selected from the life sciences and one course from the physical sciences.

SSC: After studying the physical and natural sciences, students will have a conceptual framework for understanding natural phenomena and their causes and effects.

Computer Literacy

ICCB: None

SSC: Computer literacy courses will teach students to operate a computer; create and edit a file using commercially prepared software; and retrieve and present information.

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

1.0.0 Communication (using standard English) - the expression and reception of information using oral and non-verbal cues as well as standard written English

The graduate will be able to:

1.1.0 Write so that others understand _____
- 1.1.1 develop content _____
- 1.1.2 identify audience and purpose _____
- 1.1.3 organize content _____
- 1.1.4 write draft (audience/purpose) _____
- 1.1.5 revise _____
- 1.1.6 edit for grammar, mechanics and usage _____

1.2.0 Speak so that others understand _____
- 1.2.1 use Standard English _____
- 1.2.2 use vocabulary appropriate to audience and occasion _____
- 1.2.3 organize/develop content _____
- 1.2.4 check for and interpret feedback (and response) _____

1.3.0 Listen analytically _____
- 1.3.1 follow directions _____
- 1.3.2 interpret instructions _____
- 1.3.3 separate fact from opinion _____
- 1.3.4 draw conclusions _____
- 1.3.5 identify speaker and purpose _____

1.4.0 Read for information and comprehension _____
- 1.4.1 draw inferences _____
- 1.4.2 look for bias _____
- 1.4.3 make judgments _____
- 1.4.4 summarize data _____
- 1.4.5 follow directions _____
- 1.4.6 read to find information _____
- 1.4.7 distinguish between fact and opinion _____

1.5.0 Recognize non-verbal communication _____
- 1.5.1 identify non-verbal cues _____
- 1.5.2 interpret non-verbal cues _____

SCANS — COMPETENCIES

1.0.0 Basic Skills: Reads, writes, performs arithmetic and mathematical operations, listens and speaks

The graduate will be able to:

1.1.0 Locate, understand and interpret written information in prose and in documents such as manuals, graphs, and schedules

1.2.0 Communicate thoughts, ideas, information, and messages in writing; and create documents such as letters, directions, manuals, reports, graphs, and flow charts

1.3.0 Receive, attend to, interpret and respond to verbal messages and other cues

1.4.0 Organize ideas and communicate orally

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

1.0.0 Communication: Read, write, speak and listen in level indicated.

The graduate will be able to:

1.1.0 Locate, understand and interpret written information in media, manuals, graphs and schedules.

1.1.1 locate information and follow directions from publications, manuals and data bases

1.1.2 interpret written materials, differentiate fact from inference, and summarize main and subsidiary ideas. Draw conclusions from graphs charts and schedules.

1.1.3 understand technical and abstract material, locate information desired, follow logic progression, and initiate appropriate action.

1.2.0 Communicate thoughts, ideas, information and messages in writing; compose documents such as letters, directions, manuals, reports, graphs and flow charts.

1.2.1 communicate, with written clarity, using rules of grammar, spelling and punctuation, while developing an effective writing style.

1.2.2 organize information: Develop outlines and paragraphs into logical thought sequence.

1.2.3 compose documents: Create letters, reports, memoranda and technical reports and project proposals, using references and notes when appropriate. Proof-read and edit material.

1.3.0 Receive, attend to, interpret and respond to verbal messages and other cues: organize ideas and communicate clearly.

1.3.1 understand oral communication: Distinguish main points while listening to entertainment, directions, a complex sequence of ideas, or technical explanations.

1.3.2 interpret information: Separate fact and fiction, perceive exaggeration and understatement, and observe verbal and nonverbal cues.

1.3.3 respond appropriately: Initiate, participate and appropriately express thought in discussion with one person or a group of persons.

ALLEGANY COMMUNITY COLLEGE COMPETENCIES

2.0.0 LEARNING SKILLS - the skills necessary to use information effectively as an independent, self-directed learner

The graduate will be able to:

2.1.0 Locate informational resources

2.1.1 identify library/ITC resources _____

2.1.2 card catalog _____

2.1.3 indexes _____

2.1.4 inter-library loan _____
2.1.5 magazines/journals _____
2.1.6 government documents _____
2.1.7 media _____

2.2.0 Identify campus/community/national resources _____
2.2.1 health agencies _____
2.2.2 professionals _____
2.2.3 government agencies _____
2.2.4 recreational facilities _____
2.2.5 colleagues _____

2.3.0 Identify continuing education sources _____

2.4.0 Identify computer software sources _____

2.5.0 Identify student services _____
2.5.1 I.A.C. (Tutoring, testing, catalogs, etc.) _____
2.5.2 financial aid _____
2.5.3 counseling _____
2.5.4 housing _____

2.6.0 Utilize information resources _____
2.6.1 use resources _____
2.6.2 ask questions _____
2.6.3 gather data _____
2.6.4 organize data _____
2.6.5 present data, written/orally _____
2.6.6 apply data to real life situations _____
2.6.7 keep abreast of our changing world _____
2.6.8 continue to use resources in life-long pursuits _____

2.7.0 Follow directions _____
2.7.1 read carefully _____
2.7.2 pay attention to complete verbal directions _____
2.7.3 complete assignments/tasks _____

2.8.0 Manage time _____
2.8.1 set goals _____
2.8.2 outline tasks _____
2.8.3 estimate realistically length of task _____
2.8.4 be disciplined _____
2.8.5 establish effective work/study habits _____
2.8.6 meet deadlines _____

2.9.0 Learn independently _____
2.9.1 develop ability to work individually and to work in groups _____
2.9.2 acquire necessary information _____
2.9.3 discern relevant data _____
2.9.4 demonstrate intellectual curiosity _____
2.9.5 express creativity _____

2.9.6 exhibit autonomy and self-confidence _____
2.9.7 become self-motivated _____

SCANS COMPETENCIES

2.0.0 Learning Skills - the skills necessary to use information effectively as an independent, self-directed learner

The graduate will be able to:

2.1.0 Think creatively
- 2.1.1 generate new ideas
- 2.1.2 organize and process symbols, pictures, graphs, objects, and other information

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

2.0.0 Learning Skills: Think creatively: Know how to learn, reason and gather information.

The graduate will be able to:

2.1.0 Know how to learn
- 2.1.1 use efficient learning techniques to acquire and apply new knowledge and skills

2.2.0 Reason
- 2.2.1 discover a rule or principle underlying the relationship between two or more objects and apply it when solving a problem

2.3.0 Acquire and use information effectively.
- 2.3.1 locate information from a variety of sources and evaluate data for appropriate use
- 2.3.2 organize the information into logical sequence or patterns.
- 2.3.3 maintain information in files and computer discs, under appropriate sequence and context for practical retrieval and use.
- 2.3.4 interpret data: Make decisions about the relative significance of information, make generalizations, and draw conclusions independently.
- 2.3.5 use computers to process information: Develop keyboarding skills, access data base and spread sheets, sign on and use various operating systems, load software, save and retrieve files.

ALLEGANY COMMUNITY COLLEGE COMPETENCIES

3.0.0 Critical Thinking - the analysis of facts through logical problem-solving analysis and synthesis of information.

The graduate will be able to:

3.1.0 Apply a problem-solving sequence use critical thinking skills _____
- 3.1.1 be aware _____
- 3.1.2 recognize and define a problem _____
- 3.1.3 collect information _____
- 3.1.4 organize and interpret the information _____
- 3.1.5 reach a conclusion _____

3.1.6 design a solution _____
3.1.7 implement the solution _____
3.1.8 evaluate the results _____

3.2.0 Use decision-making skills using deductive and inductive logic in solving problems _____
3.2.1 study the situation _____
3.2.2 separate fact and opinion _____
3.2.3 recognize appeals to values and emotions _____
3.2.4 recognize bias _____
3.2.5 weigh the advantages and disadvantages _____
3.2.6 form an opinion _____
3.2.7 consider the consequences _____
3.2.8 make the decision _____
A. use deductive logic _____
B. use inductive logic _____

SCANS COMPETENCIES

3.0.0 CRITICAL THINKING - the analysis of facts through logical problem-solving analysis and synthesis of information.

The graduate will be able to:

3.1.0 Solve problems
3.1.1 recognize problems and devise and implement a plan of action

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

3.0.0 Critical Thinking: Solve problems, make decisions, and visualize

The graduate will be able to:

3.1.0 Think creatively
3.1.1 generate new ideas

3.2.0 Make Decisions
3.2.1 specify goals and constraints
3.2.2 generate alternatives
3.2.3 consider risks
3.2.4 evaluate and choose best alternative

3.3.0 Solve Problems
3.3.1 recognize cause of problem
3.3.2 devise and implement plan of action

3.4.0 See things in the mind's eye
3.4.1 organize and process symbols, pictures, graphs, objects and other information.

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

4.0.0 INTERPERSONAL SKILLS - sensitivity, cooperation, and understanding of self and others

The graduate will be able to:

4.1.0 Work cooperatively with others _____
- 4.1.1 display empathy towards others _____
- 4.1.2 recognize individual differences _____
- 4.1.3 accept individual responsibility for group tasks _____
- 4.1.4 follow directions _____
- 4.1.5 think independently _____
- 4.1.6 actively participate _____

4.2.0 Exhibit a positive view of self _____
- 4.2.1 identify self strengths/weaknesses _____
- 4.2.2 accept challenges _____
- 4.2.3 establish realistic goals _____

4.3.0 Respect dignity of other person _____
- 4.3.1 recognize individual differences _____
- 4.3.2 exhibit an awareness of various opinions/view points/cultures _____

SCANS — COMPETENCIES

4.0.0 Interpersonal Skills - sensitivity, cooperation, and understanding of self and others

The graduate will be able to:

4.1.0 Displays responsibility, self-esteem, sociability, self-management, and integrity and honesty

4.2.0 Exerts a high level of effort and perseveres towards goal attainment

4.3.0 Believes in own self-worth and maintains a positive view of self

4.4.0 demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings

4.5.0 Assesses self accurately, sets personal goals, monitors progress and exhibits self-control

4.6.0 Specifies goals and constraints, generate alternatives, consider risks, and evaluate and chose best alternative

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

4.0.0 Interpersonal Skills: Work with others in a collaborative manner.

The graduate will be able to:

4.1.0 Participate as a member of a team
- 4.1.1 contribute to group effort
- 4.1.2 cooperate with the team's decision

4.2.0 Teach others new skills
- 4.2.1 apply teaching methods

4.3.0 Emulate qualities of an effective family member
- 4.3.1 understand marriage
- 4.3.2 understand parenting
- 4.3.3 understand fiscal responsibility

4.4.0 Serve clients/customers
- 4.4.1 work to satisfy customers expectations through quality management

4.5.0 Exercise leadership
- 4.5.1 communicate ideas effectively
- 4.5.2 persuade and convince
- 4.5.3 anticipate needed action of group and initiate
- 4.5.4 use or prepare budgets, make forecasts, keep records and make adjustments to meet objectives.
- 4.5.5 acquire, store, allocate and use materials or space efficiently
- 4.5.6 Assess skills and distribute work accordingly, evaluate performance and provide feedback

4.6.0 Negotiate
- 4.6.1 work toward agreements involving exchange of resources
- 4.6.2 resolve divergent interests

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

5.0.0 COMPUTATIONAL AND COMPUTER SKILLS - Performance of basic calculations and use of a computer

The graduate will be able to:

5.1.0 Perform basic computational skills _____
- 5.1.1 add, subtract, multiply, divide rational numbers (positive and negative whole numbers, fractions and decimals _____
- 5.1.2 perform computations using the concept of percent (base, rate and percentage _____
- 5.1.3 determine and interpret the average of a set of numbers _____
- 5.1.4 determine area, perimeter, circumference and volume of geometric figures using English and/or metric measurements _____
- 5.1.5 solve an equation with one unknown _____
- 5.1.6 perform basic computations on a calculator _____

5.2.0 Apply computational skills to solve problems _____
- 5.2.1 solve word problems _____
- 5.2.2 balance check book, gas mileage, square footage, percent problems, averages, recipe measurements, unit pricing _____

5.3.0 Interpret numerical and graphical data _____
- 5.3.1 read a table of numerical data to determine information _____
- 5.3.2 interpret information from pie charts, pictograms, bar graphs and line graphs _____
- 5.3.3 present data or information on a graph _____
- 5.3.4 recognize use and misuse of statistical data _____

5.4.0 Demonstrate computer usage with common applications _____
- 5.4.1 demonstrate basic operation of a computer _____
- 5.4.2 identify components of computer (drives, keyboard, display, printer) _____
- 5.4.3 care for and manage computer components, diskettes, etc. _____
- 5.4.4 run a prepared software package _____

SCANS COMPETENCIES

5.0.0 Computational and Computer Skills - Performance of basic calculations and use of a computer

The graduate will be able to:

5.1.0 Perform basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

5.0.0 Computation: Perform basic computations as well as approach practical problems by choosing appropriately from a variety of mathematical techniques.

The graduate will be able to:

5.1.0 Perform basic computations
- 5.1.1 add, subtract, multiply and divide whole numbers, fractions and decimals.

5.2.0 Measure
- 5.2.0 use appropriate standard or metric systems
- 5.2.1 measure and convert length, weight, capacity, area, volume, time, temperature and angles

5.3.0 Interpret
- 5.3.1 using tables, charts and graphs, depict or interpret interrelationships.

5.4.0 Solve problems
- 5.4.1 apply principles of algebra and geometry
- 5.4.2 solve ratio, proportion and multiple-step problems.

5.5.0 Predict outcomes
- 5.5.1 incorporate logic, probability and statistics in practical situations

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

6.0.0 CULTURE AND SOCIETY - attitudes and skills required to understand cultural differences as applied to ethics, the arts, current affairs, and an appreciation of the contributions of individuals to society

The graduate will be able to:

6.1.0 Value cultural diversity _____
- 6.1.1 recognize different cultures _____
- 6.1.2 identify the different aspects/expressions of culture _____
- 6.1.3 interact with different cultures _____
- 6.1.4 show tolerance of different cultures _____
- 6.1.5 identify different cultural characteristics _____

6.2.0 Value the fine and performing arts _____
- 6.2.1 identify a variety of art forms _____
- 6.2.2 experience a variety of art forms (performing and fine arts _____

6.3.0 Practice ethical and responsible citizenship _____
- 6.3.1 practice honesty _____
- 6.3.2 develop a personal and professional code of ethics _____
- 6.3.3 develop a sense of personal responsibility _____
- 6.3.4 recognize responsibility of local and global citizenship _____

6.4.0 Express an informed opinion about the impact of current events _____
- 6.4.1 develop an awareness of sources for current events _____
- 6.4.2 research and analyze the validity of information _____
- 6.4.3 communicate understanding of current events _____
- 6.4.4 identify the significance of current events _____

6.5.0 Assess events in light of historical perspective _____
- 6.5.1 relate current events to similar historical events _____
- 6.5.2 identify causal factors that influence current events _____
- 6.5.3 develop a historical perspective _____

6.6.0 Demonstrate a geographical perspective _____
- 6.6.1 acquire an awareness of geographical locations _____
- 6.6.2 read/interpret maps _____
- 6.6.3 relate culture to geography _____
- 6.6.4 relate environmental conditions to geography _____
- 6.6.5 assess the impact of technology on geographical study _____

SCANS — COMPETENCIES

6.0.0 Culture and Society - attitudes and skills required to understand cultural differences as applied to ethics, the arts, current affairs, and an appreciation of the contributions of individuals to society

The graduate will be able to:

6.1.0 Choose ethical courses of action

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

6.0.0 Culture and society - display responsibility, self-esteem, sociability, self-management, integrity and honesty.

The graduate will be able to:

6.1.0 Exert a high level of effort and persevere toward goal attainment.

6.2.0 Believe in own self-worth and maintain a positive view of self.

6.3.0 Demonstrate and understand friendliness, adaptability, empathy and politeness in group settings.

6.4.0 Choose ethical courses of action

6.5.0 Demonstrate positive attitudes toward work and the values and habits needed for career success.

6.6.0 Explore options and relate them to personal aspirations and abilities. Select short and long term goals, and pursue the necessary training and/or education: evaluate compensation and benefits of prospective employers.

6.7.0 Understand political organizations

- 6.7.1 become more familiar with the structure and function of government at the local and national levels, including the interrelationship of the three branches of government.
- 6.7.2 recognize how interaction among people of various nationalities, geographic location, races and cultures have shaped United States and world history
- 6.7.3 explore implications of alternatives proposed to solve societal problems; analyze and compare the political and economic beliefs and systems of the world nations. Understand that we are part of a mutually dependent global community
- 6.7.4 know how social, organizational and technological systems work and operate effectively with them

6.8.0 Economics: Understand the nature of business and industry, including concepts, materials and processes of a production and service economy on a local and world-wide basis.

- 6.8.1 recognize and discuss marketing and distribution, profit and loss, expenses, assets and liabilities, and quality control.
- 6.8.2 approach business and industrial problems or opportunities with knowledge of basic concepts

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

7.0.0 SCIENCE AND TECHNOLOGY - an understanding of science and technology, their roles in society, and their impact upon daily life and the environment

The graduate will be able to:

7.1.0 Identify the role of science and technology in society _____

7.1.1 state a theory _____
7.1.2 apply the theory _____
7.1.3 identify the impact of theory on technology _____
7.1.4 identify the impact of technology on society _____

7.2.0 State values and attitudes which reflect an understanding of and respect for the environment _____
7.2.1 recognize environmental problems _____
7.2.2 define relationships between society and the environment _____
7.2.3 identify the impact of environmental choices _____
7.2.4 demonstrate respect for the environment and its resources _____
7.2.5 demonstrate attitudes of conservation _____

7.3.0 Apply the scientific method to practical problems _____
7.3.1 state the problem _____
7.3.2 define the problem _____
7.3.3 evaluate data or information _____
7.3.4 identify outcomes of objectives _____
7.3.5 develop a plan to meet the objectives _____
7.3.6 implement plan _____
7.3.7 continue to assess and re-evaluate _____

SCANS COMPETENCIES

7.0.0 Science and Technology - an understanding of science and technology, their roles in society, and their impact upon daily life and environment.

The graduate will be able to:

7.1.0 Discover a le or principle underlying the relationship between two or more objects and apply it when solving problems.

7.2.0 Use efficient learning techniques to acquire and apply new knowledge and skills.

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/10/92

7.0.0 Scientific Literacy and Technology: The ability to identify, define and find solutions to problems dealing with natural phenomenon using the knowledge and processes of science which have evolved over time.

The graduate will be able to:

7.1.0 Observe and compare physical properties of objects
7.1.1 use observation, experimentation, and trial and error

7.2.0 Utilize scientific procedure
7.2.1 gather data through lab, field and library research
7.2.2 organize results
7.2.3 make a formal hypothesis
7.2.4 sug. st outcomes
7.2.5 predict variables

7.3.0 Design controlled experiments

7.3.1 foresee combinations of variables in an experiment.

7.4.0 Select Technology

7.4.1 choose procedures, tools or equipment, including computers and related technologies

7.5.0 Apply technology to task: Understand overall intent and proper procedures for setup and operation of equipment and machines related to daily living, and tools of science for measurement and sensing

7.6.0 Maintain and troubleshoot equipment

7.6.1 prevent, identify or solve problems with equipment, including computers and other technologies

7.7.0 Monitor and correct performance

7.7.1 distinguish trends, predict impacts on system operations, diagnose deviations in systems' performance and correct malfunctions

7.7.2 suggest modifications to existing systems and develop new or alternative systems to improve performance

ALLEGANY COMMUNITY COLLEGE — COMPETENCIES

8.0.0 WELLNESS - an awareness, understanding, and appreciation of the components of a healthy lifestyle

The graduate will be able to:

8.1.0 Identify basic characteristics of a healthful life _____

(Demonstrate awareness of the importance of:)

8.1.1 regular exercise _____

8.1.2 proper nutrition _____

8.1.3 proper rest _____

8.1.4 regular physical assessment _____

8.1.5 stress management/relaxation techniques _____

8.1.6 socialization _____

8.2.0 State benefits of personal health and well-being _____

8.2.1 identify components of a healthful life _____

(Identify benefits of:)

8.2.2 regular exercise _____

8.2.3 proper nutrition _____

8.2.4 proper rest _____

8.2.5 regular physical assessment _____

8.2.6 stress management/relaxation techniques _____

8.2.7 socialization _____

8.2.8 recognize detrimental effects of drug/alcohol/tobacco abuse _____

8.3.0 Develop an individual plan for personal health _____

8.3.1 recognize value of lifelong commitment to personal health _____

8.3.2 assess physical health annually _____

8.3.3 identify health risks _____

8.4.0 Participate in an activity which promotes healthful living _____

- 8.4.1 engage in activity that promotes health _____
- 8.4.2 engage in physical fitness/exercise activity _____
- 8.4.3 drug/alcohol awareness week _____
- 8.4.4 AIDS/STD awareness seminars _____
- 8.4.5 smoking cessation program _____
- 8.4.6 intramural sports _____
- 8.4.7 healthy food choices in cafeteria/vending _____
- 8.4.8 fitness center _____
- 8.4.9 fitness facilities (indoor and outdoor) _____
- 8.4.10 physical/fitness assessments _____
- 8.4.11 student clubs and organizations _____

SCANS COMPETENCIES

8.0.0 Wellness

CORE COMPETENCIES/SKILLS BASED ON DAOES/COD TECH PREP REPORT OF 4/1?/92

8.0.0 Wellness/Resources: identifies, organizes, plans and allocates resources.

The graduate will be able to:

8.1.0 Assess self accurately, set personal goals, monitor progress and exhibit self-control; handle stress appropriately.

8.2.0 Select goals relevant activities, rank them, allocate time and prepare and follow schedules; prioritize unexpected activities within a given time frame.

8.3.0 Respect and support environmental conservation.