

Course: XXXX yyyy

Course Name Here

Course Content Lead: (who is in charge of this course information)

What is the end goal of this course?

WECM Information:

Please note: WECM information is included as a resource and is not meant to be utilized as a course outline. Course Categories/Topics and individual KSAs (Knowledge, Skills & Abilities) should come from industry and be itemized. With the general nature of WECM outcomes, it should be very easy to ensure that End of Course Outcomes are met and mapping will be done in the future to ensure that there are not any gaps. Please utilize this opportunity to take a look at each course with fresh eyes and carefully consider industry needs and the needs of your program as you go through the deconstruction process. Please do not hesitate to contact contact (contact@college.edu) if you have any questions or need any assistance

[Link](#)

Course Level: Advanced

Course Description:

WECM/Course Outcomes:

Units/Categories

KSA

CC = Course Competency

LO = Learning Objective

Learning Journey

Learning Journey, Activities & Assessment Info (After each competency, Not learning Objective)

Learning Journey Table Template

<div>Resources Table</div> <div>(This table is for ALL instructors to share resources. Right click to add rows as necessary)</div>			
<div>Resources & Materials</div> <div>Videos, Books, Simulations, etc. (Be Specific, include chapters, links, vendor info)</div>	<div>Assignments</div> <div>Practice Labs, Quizlets, and Interactive Activities</div>	<div>Tests and Major Projects</div> <div>Tests/Exams, Projects</div>	<div>Proposed New Material and Content</div> <div>New Videos, Workbooks, Simulations, etc.</div>
<div>Comments/Notes</div>			

Professional Skills: ([/from o'net](#))

Abilities: ([/from o'net](#))

Professional Skills: ([/from o'net](#))

Abilities: ([/from o'net](#))

Professional Skills:

- Programming — Writing computer programs for various purposes.
- Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Quality Control Analysis — Conducting tests and inspections of products, services, or processes to evaluate quality or performance.
- Reading Comprehension — Understanding written sentences and paragraphs in work related documents.
- Systems Analysis — Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
- Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.
- Writing — Communicating effectively in writing as appropriate for the needs of the audience.
- Active Learning — Understanding the implications of new information for both current and future problem-solving and decision-making.
- Mathematics — Using mathematics to solve problems.
- Operations Analysis — Analyzing needs and product requirements to create a design.
- Social Perceptiveness — Being aware of others' reactions and understanding why they react as they do.
- Speaking — Talking to others to convey information effectively.
- Systems Evaluation — Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.
- Time Management — Managing one's own time and the time of others.
- Coordination — Adjusting actions in relation to others' actions.

- Monitoring — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action

Abilities:

[O'NET](#) Occupation Link(s) for this course:

15-1131.00 - Computer Programmers

- Written Comprehension — The ability to read and understand information and ideas presented in writing.
- Near Vision — The ability to see details at close range (within a few feet of the observer).
- Oral Comprehension — The ability to listen to and understand information and ideas presented through spoken words and sentences.
- Deductive Reasoning — The ability to apply general rules to specific problems to produce answers that make sense.
- Inductive Reasoning — The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- Information Ordering — The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).
- Problem Sensitivity — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- Oral Expression — The ability to communicate information and ideas in speaking so others will understand.
- Speech Recognition — The ability to identify and understand the speech of another person.
- Written Expression — The ability to communicate information and ideas in writing so others will understand.
- Mathematical Reasoning — The ability to choose the right mathematical methods or formulas to solve a problem.
- Number Facility — The ability to add, subtract, multiply, or divide quickly and correctly.
- Selective Attention — The ability to concentrate on a task over a period of time without being distracted.
- Speech Clarity — The ability to speak clearly so others can understand you.
- Flexibility of Closure — The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.
- Fluency of Ideas — The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).
- Originality — The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.