

ARCHITECTURAL & MANUFACTURING SCIENCES DEPARTMENT **AMS 356 System Design and Operations On Demand Module One** Dr. Daniel Jackson

OFFICE and AVAILABILITY:

EST 223 (270) 745-5955 e-mail: dan.jackson@wku.edu By appointment only

CATALOG DESCRIPTION:

The first module of three in the AMS 356 sequence.

PREREQUISITE:

Junior Standing, Math 116 and AMS 271.

REQUIRED TEXTS:

Operations Management. (9th through latest edition). William J. Stevenson, McGraw-Hill Irwin. This text will also be used in the remaining two AMS 356 modules.

COURSE COMPETENCIES:

- Make forecasts and plan for productivity, capacity, and a balanced system in relation to facilities, equipment, and long term planning.
- Set up production rates based upon product demand and standard data systems.

COURSE CONTENT:

- Introduction to Operations Management
- Productivity, Competitiveness, and Strategy
- Forecasting
- Product and Service Design
- Capacity Planning
- Process Selection and Layout
- Work Design

COURSE STRUCTURE:

This course contains multiple units. Within each unit, students will have to read the assigned readings, complete various assignments and activities, and complete a final assessment. The final assessment is proctored.

COMPETENCY PROTOCOL:

1. When you enter the course module, you will be given the option of taking a pre-assessment. You can accept or decline the pre-assessment. If you decline, the course units will become available based on the adaptive release rules set for the module.
2. If you accept and take the pre-assessment, you have these choices depending upon the outcome:
 - If you receive a grade of 86% or higher on the pre-assessment, all the material in the course module becomes available. You can then choose to (a) go through any of the unit material in course to gain the additional knowledge that was deficient on the pre-assessment or choose to (b) go directly to the final assessment.
 - If you score below an 86% on the pre-assessment, you must complete all of the units in the course based on the adaptive release rules set for the course module in order to complete the final assessment.

The Final Assessment for the Course Module

In order to qualify for the final assessment, you must have (a) received at least 86% on the pre-assessment or (b) successfully completed all of the required course unit material. One attempt is allowed and must be in a proctored setting. Minimum passing score is 86% or above. If the attempt is unsuccessful, you must continue to work on the units of the course module until you can successfully complete the final assessment at the competency level. See the section on Repeating Course Material in this syllabus.

If you receive a score on the final assessment equal to or greater than 86%, but less than 94%, you are

allowed one additional attempt on the final assessment to increase your grade from a B to A or you can accept the B and move on to the next course module.

OVERALL GRADING CRITERIA:

The only grade that measures the overall competency of the module is the final assessment. There are three grade levels available:

Mastery, A+, A, 100% – ≥ 94%

Demonstrates superior work performance and mastery of the subject content. The work/performance is commendable and demonstrates exceptional thinking and/or performance. The work or research exceeds expected requirements with substantial depth and efficiency. The work is highly organized, formatted correctly, and communicates effectively.

Competency, B+, B, <94% – ≥ 86%

Demonstrates a clear understanding of the subject content with no flaws. The work or research accomplishes the purpose of the task and identifies the most important ideas. The work is over and beyond the minimum requirements with depth. The work is organized, formatted correctly, and communicates effectively.

Minimal, Deficient or Unacceptable; Standard not yet met, F, < 86% – 0%

-Performance at minimum standard. Work displays some understanding of major concepts. Main points of content are covered and required elements included, but the work lacks competent professionalism.

-Shows an incomplete understanding of the task/project. The purpose of the task or research was not accomplished. The work/performance is ineffectual or inappropriate. One or more important elements are omitted. The work is vague, incomplete, and incorrectly formatted. The presentation is so flawed that it obscures the meaning.

-Significantly incomplete and/or deficient. Significant parts omitted or plagiarized. Work shows no understanding of the subject content. Important purpose of the task or research was not achieved. Work did not meet the minimum requirements. Work suggests incompetence.

For this course module, achievement at the competency or mastery must be obtained in order to pass the course. Performance at minimal standard (< 86%) is not acceptable. Students must achieve competency (≥ 86%) or higher.

You will know in advance the standards for each assignment. You are responsible for:

- Asking for help or clarification when needed
- Completing all course module deliverables
- Committing to a high level of professional development and learning
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The grade for this course module is based upon performance to a standard. Students are expected to put forth effort congruent with the highest standard. The grade is based upon your performance to a standard. The earned final grade is based on Overall Grading Criteria listed above. The final grade is per my discretion.

You are ultimately responsible for your learning. Those who take responsibility for their learning are generally more successful in the course module. Successful students are active learners who read the text, complete the assigned work, ask questions as needed, and participate fully in the course module.

Repeating Course Material. In the event you complete all module material and are still not performing at a competent level on the final assessment, I may reassign previous work or provide additional work until demonstration of competency is achieved.

PROCTORED ASSESSMENTS:

Your assessment will be proctored. This can be facilitated at any approved WKU testing centers. There may be a fee for taking the assessment at a testing center outside of WKU. More information about scheduling your exams can be found in the Competency Assessment content area.

COMMUNICATION:

Please communicate with the instructor of the course first through email. The instructor will reply within 48 hours of your email. If the instructor instructs you to phone or does not reply within 48 hours, use the phone number provided in the syllabus or the departmental number at 270-745-3251. Meetings can only be arranged by appointment.

When emailing the instructor, please provide your name, contact information, WKU 800 number (with no dashes), and a full explanation of the issue. In the subject area of the email, please indicate the course, the module, that it is On Demand, and then indicate a short one word description of the issue.

Submitted tasks and assignments make take one to two weeks to return with feedback.

SUGGESTED SCHEDULE:

Under normal circumstances this module should take five weeks to complete. For a breakdown of suggested activities, please refer to the Suggested Schedule item within this syllabus link.

ACADEMIC HONESTY:

All Western Kentucky University policies are in effect. All your work must be your own, unless I authorize collaboration, in which case you must, in writing, acknowledge the help you have received. Presenting the words, ideas, or expressions of another person in any form and claiming them as one's own is plagiarism and will not be tolerated. The claim of ignorance is no excuse. (See academic offenses in the WKU student handbook.)

STUDENT DISABILITY SERVICES:

In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is (270) 745-5004. Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

SYLLABUS QUIZ:

Once you have read and understand this syllabus please take the syllabus test to continue with AMS 356 Module One.