

AVMG 3140 Performance Evaluation Measurement Spring Semester, 2014

Course Description:

Introduction to the use of operations research techniques. Includes the role of math modeling procedures, manual and computer generated solutions, applied to the decision-making process.

Course Information:

Class meets Tuesday and Thursday in Room 111 of Lowder Hall from 9:30-10:45

Instructor:

Andy Carter, Lt Col (Ret), USAF
Adjunct Professor
446 Lowder

Email: andy.carter@auburn.edu

Office Phone: 334-844-4911

Office Hours: Tuesday, Thursday 11:00-12:00

Textbook:

Heizer/Render: Operations Management, 11/E by Jay Heizer and Barry Render
ISBN: 0-13-292114-6

Course Objective:

Students will gain an understanding of business operations applied specifically to the field of aviation. The course will introduce students to the design and management of operations and culminate with the exploration of business analytics tools in the decision making process

Attendance:

Students are strongly encouraged to attend class as they are responsible for all material presented by lecture as well as text. There will be unannounced quizzes over homework assignments. Any graded material missed due to absence by be made up with proper documentation if the absence is excused in accordance with the *Student Policy eHandbook*.

Classroom Courtesy:

Students are expected to treat fellow students, the instructor and any guests with the utmost respect. Please refrain from conversation and do not use a cell phone at any time.

Academic Honesty:

Cheating in any form is unacceptable and will be reported to the Office of the Povost in accordance with *Student Policy eHandbook*. Don't do it.

Reasonable Accommodation:

Students who need special accommodations in class, as provided for by the Americans With Disabilities Act, should arrange a confidential meeting with the instructor during office hours the first week of classes - or as soon as possible if accommodations are needed immediately. You should bring a copy of your Accommodation Memo and an Instructor Verification Form to the

meeting (unless the Office of Accessibility has already sent me one via email). If you do not have these forms but believe you need accommodations, make an appointment with the Office of Accessibility, 1244 Haley Center, 334-844-2096 (V/TT).

Communication:

Homework, quizzes and personalized study plans will be administered through a website provided by the publisher. Sign up immediately in order to receive assignments. Grades will also be posted on Canvass.

Course Schedule

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|---------------|---|
| 1-9-14 | Introductions and Expectations |
| 1-14-14 | Operations and Productivity |
| 1-16-14 | Operations Strategy in a Global Environment |
| 1-21-14 | Project Management |
| 1-23-14 | Forecasting |
| 1-28-14 | Design of Goods and Services/ Sustainability in the Supply Chain |
| | Jan 29, Last Day to Drop |
| 1-30-14 | Test #1 |
| 2-4-14 | Managing Quality |
| 2-6-14 | Statistical Process Control |
| 2-11-14 | Process Strategy |
| 2-13-14 | Capacity and Constraint Management |
| 2-18-14 | Location Strategies |
| 2-20-14 | Layout Strategies |
| 2-25-14 | Human Resources and Work Measurement |
| 2-27-14 | Test #2 |
| | Feb 27, Last Day to Withdraw |
| 3-4-14 | Supply Chain Management/ Supply Chain Management Analytics |
| 3-6-14 | Inventory Management |
| 3-11-14 | Spring Break |
| 3-13-14 | Spring Break |
| 3-18-14 | Aggregate Planning and S&OP |
| 3-20-14 | Material Requirements Planning (MRP) and Enterprise Resource Planning (ERP) |
| 3-25-14 | Short-Term Scheduling |
| 3-27-14 | JIT, TPS and Lean Operations |
| 4-1-14 | Maintenance and Reliability |
| 4-3-14 | Test #3 |
| 4-8-14 | Decision-Making Tools |
| 4-10-14 | Linear Programming |
| 4-15-14 | Transportation Models |
| 4-17-14 | Waiting-Line Models |
| 4-22-14 | Learning Curves |
| 4-24-14 | Simulation |
| 4-28 Thru 5-2 | Finals Week |

