# St. Petersburg College



# **OPERATIONS MANAGEMENT** MAN 3504 COURSE SYLLABUS – SECTION 3000

Fall 2023 Express - 12 Week - Online Instruction

#### WELCOME

*Why is this course important?* Because it enables our organizations to gain a competitive advantage! This course is vital for students that want to run their own business or be an effective manager in an organization. Whether for-profit or not for profit, small or large, our organizational strategies need operations management to productively manage resources for the delivery of quality products or services.

#### PROFESSOR

#### Name: Wende Huehn-Brown

Email: <u>huehnbrown.wende@spcollege.edu</u>

**Phone:** <u>727-341-3131</u>

#### **Office Location:**

St. Petersburg/Gibbs Campus (TE Building, Room 131A) Virtually via Zoom, MyCourses, and/or MyOMlab

#### **Office and Online Hours:**



Campus Office Hours each Tuesday and Wednesday (10AM to 2PM). Please call or email for an appointment to assure availability.

Virtual Office Hours via Zoom each Wednesday - 11:30AM to 12:30PM at <u>https://spcollege.zoom.us/j/92739011829</u>

Want to meet or Zoom another day or time? Just call or email to set up a time that fits our schedules.

Professor Webpage: https://web.spcollege.edu/instructors/id/huehnbrown.wende

# ACADEMIC DEPARTMENT

### Dean of the College of Business

Name: Emmanuel Hernandez Agosto Office Location: Downtown Office Phone Number: 727-712-7176 Email: <u>hernandez.emmanuel@spcollege.edu</u>

Website - College of Business

# **COURSE INFORMATION**

#### **Course Description**

Academic Chair Name: Michael Ewell Office Location: St. Pete/Gibbs TE 131-B Office Phone Number: 727-791-2610 Email: ewell.mike@spcollege.edu

This course focuses on the managerial decision science organizations use to create a competitive advantage. The emphasis is on ten strategic operations management decisions that improve productivity and quality across the extended enterprise to deliver our products and services. Students will examine key factors impacting performance, as well as apply mathematical and computer applications to build analytic skills.

# **Course Major Learning Objectives**

Week 1: Evaluate the tactical impact that operations management decisions have in implementing an organization's strategy.

Week 2: Assess how project management is used to better manage operations, as well as how learning curves enable operating decisions.

Week 3. Assess how forecasting is used to better manage operations.

Week 4: Evaluate how product/service design impacts sustainability and examine simulation models.

Week 5: Evaluate quality management tools and techniques.

Week 6: Critique the process, capacity, and location operations management strategies.

Week 7: Critique the layout operations management strategies and evaluate human resources decisions used in operations.

Week 8: Evaluate supply chain management strategies and transportation models used in operations.

Week 9: Evaluate inventory management strategies and waiting lines used in operations.

Week 10: Examine sales and operations planning (S&OP), materials requirements planning (MRP), enterprise resource planning (ERP), and short-term scheduling.

Week 11: Assess how lean operations, maintenance and reliability, linear programming, learning curves, and big data business analytics enables operating decisions.

Week 12: Connect and integrate lessons on operations management through a comprehensive final exam.

### Prerequisites

A working knowledge of algebra is required. Students encouraged to know some probability and statistics (will review in course).

Further computer skills are vital as decision science software (POM for Windows and ExcelOM) is available through MyOMlab to aid in the analytics, as well as students may use MS Office Excel.

### **AVAILABILITY OF COURSE CONTENT**

The course opens by midnight the Thursday prior to the first day of class. Students may work ahead up until the due date at their own pace. Students must complete specific action items in the Start Here and First Day module to open further Course Content which contains the weekly lessons.

This course is offered also in an 8-week Online, Live Online, or Blended/Flex option. The same learning objectives are met across all formats to support learning standards and articulation needs.

# **REQUIRED TEXTBOOK & OTHER RESOURCE INFORMATION**



1. Textbook – 14<sup>th</sup> Edition (2023): <u>Operations Management: Sustainability and</u> <u>Supply Chain Management</u> by Jay Heizer, Barry Render, & Chuck Munson

2. MyLab Operations Management (MyOMlab) Access: Pearson MyLab & Mastering

After successful completion of the Start Here – Introduction syllabus quiz, the *First Day* – *Course Materials* module will open. This will explain how to acquire these materials and register for MyOMlab.

MyOMlab has a purchase option for the Student Value Edition (unbound pages, 3 hole punched). This text is available elsewhere in a bound purchase, rental, used, new, etc. format. First Day provides the ability to just acquire MyOMlab too.

Students should have <u>MSOffice</u> and <u>Adobe Acrobat Reader</u>, as well as access to a web camera and microphone to support video submissions.

Students should have regular access to a computer connected to the Internet. When viewing online videos or completing online assignments, students should have an Internet connection that is stable and will not drop their connection. Students without should consider making arrangements where a stable high-speed internet connection is available.

# **IMPORTANT DATES**

Course Dates: September 11 to May 12, 2022.

Drop Date: September 15, 2023. See the <u>Academic Calendar</u>.

Withdrawal Date: October 29, 2023. See the Academic Calendar.

Financial Aid Dates: See the Financial Aid Dates.

# SCHEDULE

The MyCourses Course Content has weekly lessons explaining each action item and linking students to each assignment due. Additionally, further resources are provided to support studying each week. Each week plans a minimum of 10-12 hours for learning standards and articulation. All submissions are due by 11:59 PM (EST).

Date	Module #	Module Topics	Assessments Due*
9/11 – 9/18	Week 1	Chapter 1 - Operations and Productivity Chapter 2 - Operations Strategy in a Global Environment	Due by 9/12 @ 11:59PM • Syllabus Introduction Quiz Due by 9/16 @ 11:59PM • Dynamic Study Module 1 • Quiz 1 Due by 9/17 @ 11:59PM • Study Plan 1 Due by 9/18 @ 11:59PM • Homework 1

9/18 – 9/25	Week 2	Chapter 3 - Project Management Module E - Learning Curves	Due by 9/22 @ 11:59PM Class Introduction Replies due by 9/24 @ 11:59PM Due by 9/23 @ 11:59PM Dynamic Study Module 2 Quiz 2 Due by 9/24 @ 11:59PM Study Plan 2 Due by 9/25 @ 11:59PM Homework 2
9/25 – 10/2	Week 3	Chapter 4 – Forecasting	Due by 9/30 @ 11:59PM • Dynamic Study Module 3 • Quiz 3 Due by 10/1 @ 11:59PM • Study Plan 3 Due by 10/2 @ 11:59PM • Homework 3
10/2 — 10/9	Week 4	Chapter 5 - Design of Goods and Services Supplement 5 - Sustainability in the Supply Chain Module F - Simulation	Due by 10/7 @ 11:59PM Simulation 1 -Discussion Replies due by 10/8 @ 11:59PM Due by 10/7 @ 11:59PM Dynamic Study Module 4 Quiz 4 Due by 10/8 @ 11:59PM Study Plan 4 Due by 10/9 @ 11:59PM Homework 4
10/9 – 10/16	Week 5	Chapter 6 - Managing Quality Supplement 6 - Statistical Process Control	Due by 10/14 @ 11:59PM • Dynamic Study Module 5 • Quiz 5 Due by 10/15 @ 11:59PM • Study Plan 5 Due by 10/16 @ 11:59PM • Homework 5
10/16 – 10/23	Week 6	Chapter 7- Process Strategies Supplement 7 - Capacity and Constraint Management Chapter 8 - Location Strategies	Due by 10/21 @ 11:59PM • Simulation 2 -Discussion • Replies due by 10/22 @ 11:59PM Due by 10/21 @ 11:59PM • Dynamic Study Module 6 • Quiz 6 Due by 10/22 @ 11:59PM • Study Plan 6 Due by 10/23 @ 11:59PM • Homework 6

10/23 – 10/30	Week 7	Chapter 9 - Layout Strategies Chapter 10 - Human Resources, Job Design, and Work Measurement	Due by 10/28 @ 11:59PM • Dynamic Study Module 7 • Quiz 7 Due by 10/29 @ 11:59PM • Study Plan7 Due by 10/30 @ 11:59PM • Homework 7
10/30 – 11/6	Week 8	Chapter 11 - Supply Chain Management Supplement 11 - Supply Chain Management Analytics Module C - Transportation Models	Due by 11/4 @ 11:59PM • Dynamic Study Module 8 • Quiz 8 Due by 11/5 @ 11:59PM • Study Plan 8 Due by 11/6 @ 11:59PM • Homework 8
11/6 - 11/13	Week 9	Module D - Waiting-Line Models (not Models B, C, &D)	Due by 11/11 @ 11:59PM • Dynamic Study Module 9 • Quiz 9 Due by 11/12 @ 11:59PM • Study Plan 9 Due by 11/13 @ 11:59PM • Homework 9
11/13 –11/19 Thanksgiving Break (campus closed) Nov. 20-26	Week 10	Chapter 14 - Material Requirements Planning (MRP) and ERP Chapter 15 - Short-Term Scheduling	Due by 11/18 @ 11:59PM • Simulation 3 – Discussion • Replies due by 11/19 @ 11:59PM Due by 11/18 @ 11:59PM • Dynamic Study Module 10 • Quiz 10 Due by 11/19 @ 11:59PM • Study Plan 10 Thanksgiving Break
11/27 – 12/4	Week 11		Due by 11/27 @ 11:59PM • Homework 10 Due by 12/2 @ 11:59PM • Dynamic Study Module 11 • Quiz 11 Due by 12/3 @ 11:59PM • Study Plan 11 Due by 12/4 @ 11:59PM • Homework 11
12/4 – 12/6	Week 12	Comprehensive	Due by 12/6 @ 11:59PM • Final Exam

\*Alterations to the schedule may be made as needed by the judgement of the professor.

# ASSIGNMENTS

*What do I need to do to be successful in this course?* Break down the schedule and plan your time each week. Follow the weekly lessons in the MyCourses Course Content using the resources. Recognize this field of study is often new to students and it will take time to build your vocabulary and master the analytics.

- Readings Assigns textbook chapters, supplements, and modules each week.
- Dynamic Study Modules Delivers personalized learning to reinforce chapter concepts. Students must earn  $\geq 30\%$  to access corresponding quiz by Saturday each week (3 attempts on questions).
- Quizzes Assesses terminology from the assigned reading. Students have 20 minutes (13 questions) and 3 attempts each week on concepts by Saturday. The highest grade of 3 attempts is used after the due date.
- Study Plans Presents practice analytical problems with MyCourses PDFs and tutorials, also MyOMlab learning aids and textbook examples. Use the resources to master these practice problems (unlimited attempts). Students must earn  $\geq$  30% to access corresponding homework by Sunday each week.
- Homework Assigns mathematical problems in different scenarios from study plan practice problems. Students need to show mastery in analytic methods studied by Monday. Students can redo a homework problem once (i.e. two attempts per problem) if no MyOMlab learning aid was used on the first attempt.
- **Simulations** Provides different realistic models role playing situations for students to apply the lesson concepts and analytics. Includes discussions posts due by Sat. with replies by Sun. on assigned weeks.
- Final Exam Consolidates concepts and terms from weekly dynamic study modules and quizzes, as well as analytics from study plan and homework problems, in a comprehensive exam. There is one timed submission (max. 3.5 hours). Students must attempt Quiz 11 and Homework 11 to access the final exam which is due by Wednesday in Week 12.

### STUDENTS' EXPECTATIONS AND PROFESSOR'S EXPECTATIONS

#### **Required Interaction**

This course has four discussion topics for student-students and/or student-professor interaction. Graded discussions include an assessment rubric and offers video or written submission options, as well as one day late partial credit on posts and/or replies. The other assignments in the class focus on student-content interaction with both MyCourses and MyOMlab. Further student-professor interaction is available with a Water Cooler Q&A discussion, virtual office hour, as well as other emailing, phoning, meeting, tutoring, etc. communication.

Students should <u>create notifications</u> and <u>register their phone</u> for text messages to help stay on track. Students can also <u>register email</u> and <u>forward email</u> from MyCourses so they do not miss vital communication about their courses.

#### **Attendance and Participation**

In Week 1 the professor will report students as 'No Show' if students do not provide any submissions on the lesson. While in Week 2 through Week 10, students must complete the majority of assignments each week to be considered in attendance and actively participating in the course. For example, if there are five submissions for the lesson, students must complete three of the five submissions. If students are absent two weeks during this time period, they will be administratively withdrawn from the course.

If an attendance issue is reported in the first two weeks of the course, students will receive a grade of W. If later in the course, and students did not self-withdraw by the deadline, professors will report students at the 60% point as not actively participating which results in a grade of WF.

As the college-wide syllabus addendum states, students with financial aid may be responsible for paying for the class upon withdrawal. Students should always work with their academic advisor and financial aid counselor to understand potential consequences of their course scheduling decisions.

View the college-wide attendance policies included in How to Be a Successful Student.

# Grading

Min. Points Max. Points **Final Grade** 486.9 541 А to 432.8 486.8 В to С 432.7 378.7 to D 324.6 378.6 to F 0 324.5 to

Students earn points which are a percentage distributed by letter grade.

A final grading curve may be applied at the professor's discretion.

There are various opportunities for success across different learning styles and assessment methods that test higher order cognitive and affective skills. As the schedule shows, the course is broken down into 12 weekly lessons with a variety of assignments designed for students to learn the 10 key operations management decisions, as well as the analytical tools used in each of the decisions.

Assignment Type	Points	Final Grade Weight
Introduction Quiz and Discussion	20	3.7%
Dynamic Study Modules	18	3.3%
Quizzes	143	26.4%
Study Plans	98	18.1%
Homework	132	24.4%
Simulations	60	11.1%
Final Exam (comprehensive)	70	12.9%
Total Points	541	100%

Late submissions may be accepted with a documented excuse (i.e., doctor note, family death certificate, etc.). Flexibility may be granted due to illness or other challenges. Contact the professor to discuss your needs. Advanced notice should be provided to arrange alternative needs. Late submissions should be complete within one week of the original due date.

Per SPC policy, an incomplete grade requires students to provide documented evidence of the reason(s) for extension, have a minimum of 80% of the course completed, be considered in good standing (i.e., C or better), and acknowledge in writing the plan to finish remaining work no later than the end of the sixth week in the next semester. After that time a grade of F (or higher if justified) is assigned

#### How to check your Grades and review feedback:

- <u>Checking Your Grades and Reading Instructor Feedback</u>
- Checking Your Attendance
- <u>Checking Discussion Grades and Reading Instructor Feedback</u>
- <u>Reviewing MyOMlab Assignments from Results Page</u>

#### Conduct, and Netiquette

The college-wide syllabus addendum is provided in SPC Resources for every class (<u>How to Succeed link</u>). Closely read success factors and expectations. The professor has authority to remove disruptive students and delete any inappropriate posts. Students should first speak to their professor to resolve any resource or grade issues.

SPC has outlined expectations for student behavior and interaction for online discussions, emails, and other forms of communication. View the Student Expectations in <u>How to Be a Successful Student</u>.

#### **Academic Honesty**

Students agree to the SPC Honor Code policy when they register for each course. Students are expected to be honest in completing all their academic work and students have the ethical obligation to report violations of the academic honesty polices they may witness.

Students that receive assistance from a tutor for this course must ensure all scheduled quizzes, homework assignments, simulations with discussions, and exams are their own work. *Tutors may assist with study plan practice problems and other similar problems only.* 

Students are prohibited from using Generative AI (Artificial Intelligence) for any submission in this course. If students use AI or tutors for their graded work, it violates the academic honor code agreed upon when registering for the class. For example, if writing a discussion post, it needs to be your own original work as use of AI to make a post or reply is unacceptable for this course. Also, it is unlikely AI understands what you did in the simulation to write an effective post or reply to discuss it which may lead to low performance.

AI or tutors are not a replacement for building your own critical thinking needs for the submissions in this course. Organizational leaders and managers expect students that take this kind of course to learn the objectives for the course. If students cut their learning short violating the academic honesty and integrity polices, they leave themselves at a deficient level for building the knowledge, skills, and abilities needed to support their own business and/or career too.

Failure to comply with the college academic honesty and integrity polices during course studies may result in academic and disciplinary action, up to and including expulsion from the college. View the <u>Academic Honesty</u> <u>Policy</u> or talk to your professor if you have further questions.

### Copyright

Copyrighted material within this course, or posted on this course website, is used in compliance with United States Copyright Law. Under that law students may use the material for educational purposes related to the learning outcomes of this course. You may not further download, copy, alter, and/or distribute the material unless in accordance with copyright law and with permission of the copyright holder. For more information on copyright visit: <u>Copyright.gov</u>.

# LEARNER SUPPORT

Accessibility: This course is designed to be welcoming to, accessible to, and usable by everyone, including students who are English-language learners, have a variety of learning styles, have disabilities, or are new to online learning. Be sure to let your professor know immediately if you encounter a required element or resource in the course that is not accessible to you. Also, let the professor know of changes they might be able to pursue to make improvement to the course for future students.

If you have documentation of a disability or feel you may have a disability, St. Petersburg College recognizes the importance of equal access to learning opportunities for all students. Accessibility Services (AS) is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students registered with AS, who are requesting accommodations, should contact their professor by the start of the course. Students who have, or think they may have, a disability (e.g., learning disability, ADD/ADHD, psychiatric, medical/orthopedic, vision, and/or hearing), are invited to contact the Accessibility Coordinator (AC) that serves your campus for a confidential discussion.

Answers to questions regarding accommodations may be found at the <u>Accessibility Services</u> site. If you are in need of accommodations, please contact a campus <u>Accessibility Services Coordinator</u>. If you need a Sign Language Interpreter, complete the form at <u>web.spcollege.edu/survey/664</u>. View the <u>Learning Resources</u> site.

**Tutoring:** Students should talk to their professor if they need additional assistance. Further tutoring is available through the Learning Resources (including 24/7 online tutoring through Tutor.com). These resources are FREE and may be helpful with writing (including APA format), math, and computer skills needed for this course. As the Academic Honestly policies state, students that receive assistance from a tutor must ensure all scheduled quizzes, homework, simulations, and exams are their own work. Tutors may assist with study plan practice problems and other similar problems only. View the Learning Center Tutoring Schedules.

This course includes on-demand study plan practice problem resources each week in the MyCourses Course Content to complete each assigned problem, as well as MyOMlab learning aids for each problem that supplement textbook explanations and examples (including Ask My Instructor help link).

**Libraries:** A list of SPC libraries is available online at: <u>https://www.spcollege.edu/current-students/learning-resources/partnership-libraries</u>. The SPC Library and Services includes help with research, as well as Ask a Librarian which is part of the Florida Virtual Reference Service. Librarians can also help with APA citation tools and format for submissions.

Academic Advising: For assistance with academic planning for course sequencing, course selection, registration, transfer, and other requirements, <u>contact an advisor</u>. All students should have completed SPC <u>SmartStart Course</u> for orientation (never too late).

**Career Services:** Includes internships and employment opportunities, as well as resume and interview assistance at <u>https://www.spcollege.edu/current-students/student-affairs/student-support-resources/career-</u>services.

**Retention Services:** Includes <u>Child Care Assistance</u> and also <u>various groups</u> that can help students be more successful in their studies.

**Titan Care Resources:** As an SPC student it's vital that you know <u>Titans Care</u> for collaborative resources available for students. Including <u>counseling services</u> for mental health or general life issues, <u>community</u> resources for life issues (substance abuse/crisis resources), free PSTA bus rides (<u>need current student ID</u>), and our <u>food pantry program</u>.

The SPC programs reinforce SPC's belief that supporting mental wellness is everyone's charge and that one loss as a result of substance abuse, mental illness, or suicide is one too many. If you or a loved one are considering suicide, please call the National Suicide Prevention Lifeline at 1-800-273-8255.

If you experience an extenuating circumstance beyond your control that is preventing you from maintaining Satisfactory Academic Progress (SAP) you may need to file an <u>SAP Appeal</u> to support financial aid eligibility.

**Veteran Services:** Includes a variety of services specifically for veterans at <u>https://www.spcollege.edu/current-students/student-affairs/student-support-resources/veterans-services</u>.

**Campus Safety:** For information on emergencies and other policies, see <u>https://www.spcollege.edu/friends-partners/safety-and-security</u>. Students on campus that need an escort to their car, or to report an issue on any campus, should call Campus Security at <u>727-791-2560</u>.

View the Student Services site for further information and resources for student affairs.

# STUDENT SURVEY OF INSTRUCTION

The Student Survey of Instruction is administered in courses each semester. It is designed to improve the quality of instruction at St. Petersburg College. All student responses are confidential and anonymous and will be used solely for the purpose of performance improvement.

# TECHNOLOGY

### **Minimum Technology Requirements**

View the Technical Requirements for MyCourses.

SPC offers Microsoft Office software to current students at no additional cost. The software is available for both Windows and Mac computers. View the <u>How to Download Microsoft Office 2016</u> tutorial. Microsoft Excel may be used for course math or analytics.

Students should also have Adobe Reader (FREE at <u>https://get.adobe.com/reader/</u>) on their computer as it offers more advanced features than what the internet browser plug-in can do (i.e. search, highlight, notes, etc.).

See MyCourses Week 1 module regarding decision science software FREE to download from MyOMlab. POM for Windows and/or ExcelOM may be used for course math or analytics.

Additionally FREE technology tutorials are available through SPC partnership resources at <u>https://mycoursessupport.spcollege.edu/technology-tutorials</u>. This includes computer and internet basics, as well as Microsoft Office. Master technology for your courses and career!

### Minimum Technical Skills

Students should know how to navigate the course and use the course tools. Both MyCourses and Pearson MyLab are used for this course.

MyCourses tutorials are available to students new to this Learning Management System (LMS) of MyCourses at the bottom of the Course Content. Students should have completed the <u>Introduction to MyCourses</u> before taking this course (if not please follow link to access and complete ASAP). Most features in MyCourses are accessible on mobile devices, although it is recommended that you use a computer for quizzes/tests, math problems, and other assignments.

If an attachment cannot be opened by the professor, students will be required to re-format and re-submit an assignment so that it can be evaluated and returned with feedback.

### **Technical Support**

Technical support is available 7 days a week via the <u>SPC Technical Support Center</u>.

### Accessibility of Technology

- <u>MyCourses (Brightspace by Desire2Learn) Accessibility</u>
- <u>Google (YouTube) Accessibility</u>
- <u>Pearson MyLab Accessibility</u>

#### Privacy

- <u>MyCourses (Brightspace by Desire2Learn) Privacy</u>
- <u>YouTube Privacy</u>
- <u>Pearson MyLab Privacy</u>

### Instructional Continuity Plan – Emergency Preparedness Policy

To be prepared in the event of weather or other emergency disruptions, review the <u>Emergency Preparedness</u> <u>Procedures for Students</u>. The St. Petersburg College website at <u>www.spcollege.edu</u> is the official source of college information regarding the status of the institution. Other important information will be communicated via SPC Alert, local media outlets, and the college toll-free phone number <u>866-822-3978</u>. All decisions concerning the discontinuation of college functions, cancellation of classes, or cessation of operations rest with the President or his/her designee. The College realizes that it is possible for a significant natural disaster to compromise SPC campus facilities sufficiently to disrupt the delivery of classes on campus/campuses for an extended period of time and is planning ways our operations can continue following such an emergency.

So, in the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work late. Following the event, please visit the college website for an announcement of the College's plan to resume operations.

Further, in the event of such a disaster, the professor will continue using the Learning Management System (LMS) of MyCourses for continuation of all required learning and instructional activities in this course, including the issuing of graded online assignments and expectation of student completion of those graded assignments.

Therefore, in order to keep up with all activities in this course during and after a natural disaster, please plan to continue this course by maintaining online access to MyCourses in lieu of meeting in a classroom (if applicable) - possibly through duration of the course's regularly scheduled end date. We will finish this course in MyCourses, as directed by your professor online, and your professor will use all graded assignments—both online and formerly on-campus - to assess and issue your final letter grade for this course, as normally planned, despite occurrence of the natural disaster.