



The University of Southern Queensland

Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.
Please consult the web for updates that may occur during the year.

Description: Supply Chain Operations

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
MGT	3102	91539	2, 2009	ONC	1.00	Toowoomba

Academic group:	FOBUS
Academic org:	FOB004
Student contribution band:	3A
ASCED code:	089901

STAFFING

Examiner: Mehryar Nooriafshar
Moderator: Latif Al-Hakim

OTHER REQUISITES

Students are required to have access to a personal computer, e-mail capabilities and Internet access to UConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.

RATIONALE

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SYNOPSIS

This course deals with the operations required to produce goods and services within the supply chain and involves concepts and techniques for design, planning, analysing and control of supply chain operations within and between organisations. The course provides definitions, tools and methods for analysing operations including facilities planning, resource allocation and scheduling and production philosophies (JIT and MRP), enterprise resource planning (ERP), and process and operations networks design. The course also deals with data mining for supply chain operations.

OBJECTIVES

On successful completion of this course, students should be able to:

1. explain the concept of an 'operating system' in general, its structure and objectives; and identify different types of operating systems and their structures within the supply chain
2. comprehend the importance of facility design and facility location to different supply chain applications
3. understand the principles of operation analysis and their applications for enhancing efficiency within the supply chain
4. describe the principles of just-in-time (JIT), Material Resources Planning (MRP) and Enterprise Resources Planning (ERP) and their applications within supply chain

5. develop aggregate and capacity plans and appreciate inventory management techniques
6. understand the principles and applications of quantitative and qualitative techniques of scheduling in allocating resources and managing capacity
7. be aware of the modern and state-of-the-art concepts of data mining and their applications.

TOPICS

Description	Weighting (%)
1. Facilities planning and design	10.00
2. Scheduling and resource allocation	20.00
3. Operations analysis	25.00
4. Coordination and planning	25.00
5. Process and operations network design	10.00
6. Data mining	10.00

TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

MGT3102 study package available from the USQ Bookshop.

Heizer, J & Render, B 2008, *Operations management*, 9th edn, Prentice-Hall, Upper Saddle River, New Jersey.

Summers, J & Smith, B 2006, *Communication skills handbook: how to succeed in written and oral communication*, 2nd edn, John Wiley & Sons, Milton, Queensland.

REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	40.00
Directed Study	30.00
Lectures	30.00
Private Study	35.00
Tutorials	30.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date	Objectives assessed	Graduate skill	Level assessed
ASSIGNMENT 1	100.00	15.00	10 Aug 2009	All	U1, U3, U4	2, 2, 2
ASSIGNMENT 2	100.00	25.00	19 Oct 2009	All	U1, U2, U3, U4, U5, U8, U9	2, 2, 2, 2, 2, 2
2-HOUR EXAMINATION	100.00	60.00	END S2 (see note 1)	All	U1, U2, U3, U4	2, 2, 2, 2

NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

GRADUATE QUALITIES AND SKILLS

Elements of the following Graduate Skills are associated with the successful completion of this course.

Graduate skill assessed	Level assessed
Ethical Research & Enquiry (Skill U1)	Intermediate (Level 2)
Problem Solving (Skill U2)	Intermediate (Level 2)
Academic & Professional Literacy (Skill U3)	Intermediate (Level 2)
Written & Oral Communication (Skill U4)	Intermediate (Level 2)
Interpersonal Skills (Skill U5)	Intermediate (Level 2)
Managmt, Planning & Org Skills (Skill U8)	Intermediate (Level 2)
Creatvty, Initiative & Entrprse (Skill U9)	Intermediate (Level 2)

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:
To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)
- 3 Penalties for late submission of required work:

If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded.

- 4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
- 5 Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.
- 6 Examination information:
This is a closed examination. Candidates are allowed to bring only writing and drawing instruments into the examination.
- 7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6 Assessment, and 5.10 Student Academic Misconduct for further information and to avoid actions which might contravene university regulations. These regulations can be found at <http://www.usq.edu.au/corporateservices/calendar/part5.htm>. Students should also read the Faculty of Business Procedures which can be found at <http://www.usq.edu.au/business/aboutfob.htm>.

ASSESSMENT NOTES

- 1 Assignments: (i) Assignments must be submitted in the drop box located at the Faculty of Business reception area on level 4 of L-Block by 5:00PM on the due date. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the Examiner. (iii) The Examiner may grant an extension of the due date of an assignment in extenuating circumstances. Students may apply for an assignment extension by contacting the Examiner before the due date or by including application with the submitted assignment after the due date. Such applications should be in writing and include supporting documentary evidence. The authority for granting extensions rests with the relevant Examiner.
- 2 Referencing in assignments: Harvard (AGPS) is the referencing system required in this course. Students should use Harvard (AGPS) style in their assignments to format details of the information sources they have cited in their work. The Harvard (AGPS) style to be used is defined by the USQ Library's referencing guide at <http://www.usq.edu.au/library/help/referencing/default.htm>.
- 3 Course weightings: Course weightings of topics should not be interpreted as applying to the number of marks allocated to questions testing those topics in an examination paper.

OTHER REQUIREMENTS

- 1 Computer, e-mail and Internet access: Students are required to have access to a personal computer, e-mail capabilities and Internet access to UConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.