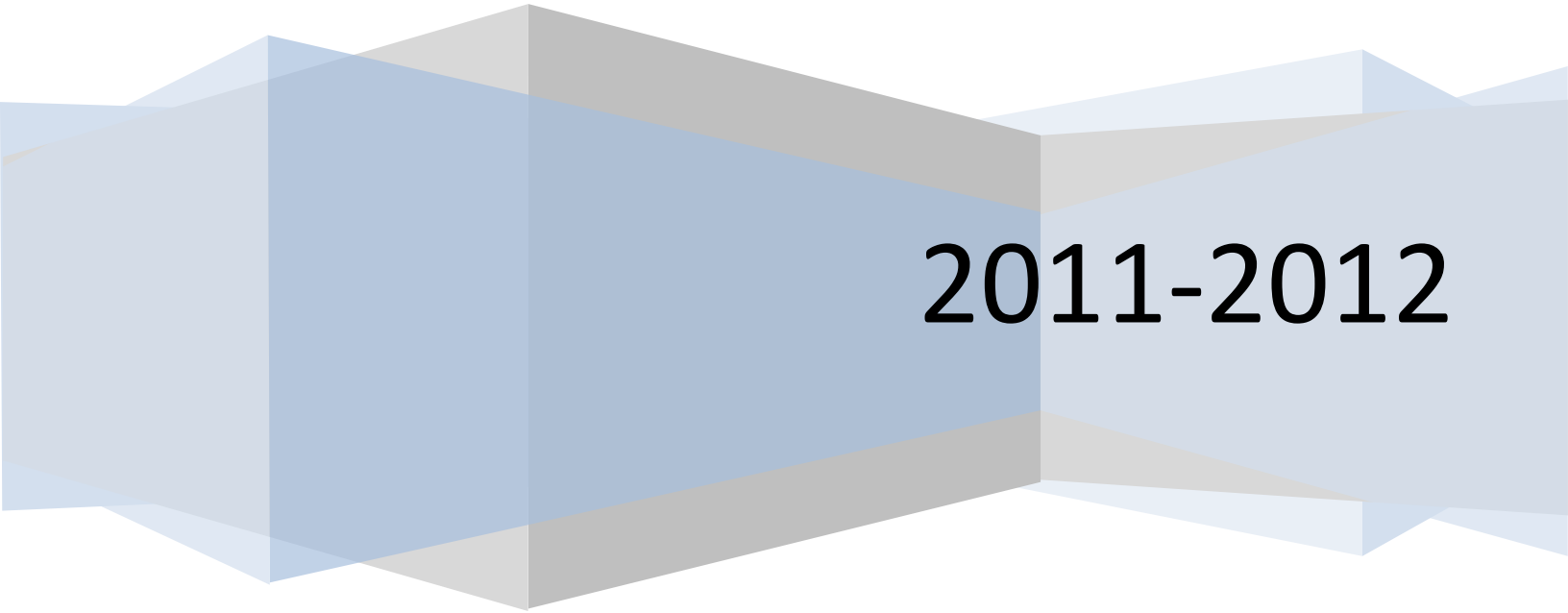
CATALOG

2011 - 2012

MODERN COLLEGE
OF BUSINESS & SCIENCE

CATALOG



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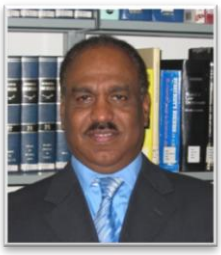

As the Dean of the College, I welcome you to MCBS, whether you are a full time or a part-time student from Oman or from any other part of the world. With the knowledge you gain from MCBS, we are sure that you will be able to build the necessary skills required in your chosen field of specialization, and you will be able to significantly contribute to yourself and your community as a whole.

MCBS is the first private college in Oman with an open admission policy and high quality education. The mission of MCBS is to provide internationally recognized learning opportunities at the post secondary level. In 1996 we established an affiliation with the University of Missouri St. Louis, USA. MCBS offers Omani nationals as well as foreign students an implausible chance to take their courses here in the Sultanate of Oman and transfer to other universities in USA, UK, Australia, Canada, Malaysia and elsewhere. Those who started their courses outside the Sultanate of Oman can also have the opportunity to transfer their credit hours to MCBS. In addition to a full-fledged international quality English as a Second Language Program (ESL), MCBS also offers quality undergraduate programs leading to internationally recognized Associate and Bachelor Degrees in Business Administration; Marketing; Economics and Banking; IT and Computer Science, statistics and Airport Management. More specializations are underway. MCBS educational values and messages are supported by outstanding campus facilities to ensure that students can get access to excellent classroom, laboratory, library, and recreational facilities. These facilities are meant to provide an excellent atmosphere where our students can continue to find education as an interesting undertaking. Today we are proud to say that 13 batches of our graduates are occupying good working positions in the Sultanate of Oman. MCBS is the first private college in the Sultanate of Oman and the first higher education institution to have obtained provisional accreditation in 2004 from the Oman Accreditation Council (OAC). The College has also passed through the quality audit program and the report was released by Oman Accreditation Agency (OAA) in the late 2009.

This catalog outlines many aspects such as MCBS mission, vision and core values, programs, policies, procedures, and resources. We look forward to having you with us on a long term partnership, as our prospective students of MCBS, a College that is dedicated to quality education for a better future.

Badr El Din A. Ibrahim, PhD Econ.
Dean

HISTORICAL OVERVIEW OF THE COLLEGE

The Modern College of Business and Science (MCBS) of the **Sultanate of Oman** is a private College licensed by the Ministry of Higher Education and provisionally accredited by the Accreditation Council of Oman (OAC - currently known as Oman Academic Accreditation Authority OAAA). The College was founded in 1996 pursuant to the country's decision to develop a private sector of higher education. The College has grown in size, scope and complexity. Initially, the vision and goal of the College was to provide a Foundation Program and the first two year's educational experience to Omani students who would subsequently transfer to the affiliate university in the United States, the University of Missouri, St. Louis (UMSL). Thus, initially the College offered only the first two years of a four year educational program patterned on the American higher educational model. In 2001, the College added a third year of the four year educational program. However, the educational model was still one of having Omani students complete their educational degree program in the United States. In 2002, the College added a fourth year, thereby allowing Omani students to complete their Bachelor Degrees in Oman.

An important step in the development and growth of the College was its seeking accreditation from the Accreditation Council of Oman. In 2004, MCBS sought institutional and programmatic accreditation which would allow it to offer Bachelor Degree programs in Oman. MCBS was successful in its application and on the strength of its submission, it was awarded Provisional Accreditation by the OAC and it is the only College that has received this credential in Oman at the time of writing this (January 2011) and it remains the only College that has ever been provisionally accredited by OAC. The College subsequently submitted its application for full accreditation in 2006. This application was not acted on because of external issues dealing with a change in the actual accreditation system employed by the Accreditation Council and internal issues in MCBS. In 2007, the College agreed to abandon its quest for full accreditation and, while it kept its designation of provisional accreditation, it agreed to enter the Quality Audit Process which now guides the OAAA.

The College offers educational programs to meet the needs of individual students as well as the needs of the business and industrial communities. The College is provisionally accredited by the Oman Accreditation Council of the Sultanate of Oman to offer Associate Degrees in Business Administration, Information Communication Technology and Computer Science as well as Bachelor of Science Degrees in Business, Economics, and Computer Science. The College maintains an active affiliation with the University of Missouri, St. Louis at both the Associate Degree and the

Bachelor Degree levels. Students still have the option of: completing a two year educational degree in Oman and seeking employment; completing two years at the College and transferring to another College or University in the United States, Australia, or the United Kingdom, or finishing a Bachelor of Science degree in the College. MCBS encourages students to transfer to UMSL or to other Colleges and Universities in the United States for the purpose of gaining international experience.

The Foundation Program remains an integral part of the College's offerings, even though this work is non credit. In 2007, MCBS completed the review and reorganization of the Foundation Program in accordance with guidelines developed by the Ministry of Higher Education and the Oman Accreditation Council, and it has prepared its Foundation Program for the accreditation process which will soon be undertaken by the OAC.

Important Milestones in the History of MCBS

- 1996 - Establishment of the College
- 1998 - First Graduation
- 2001 - Approval for Third Year of Study
- 2002 - Bachelor Degree Program offered through UMSL
- 2004 - First Self Study Completed
- 2004 - Provisional Accreditation by OAC
- 2006 - Application for Full Accreditation
- 2007 - Moved to new facilities in Bausher
- 2009 - Institutional Audit visit by OAC

MISSION STATEMENT

The Modern College of Business and Science (MCBS) is a private Omani institution committed to providing internationally recognized learning opportunities at the post secondary level. MCBS prepares students for local, regional, and international career opportunities. MCBS challenges students intellectually by offering educational programs that require students to reflect on ethical behavior. MCBS supports initiatives that develop student competencies in English and technology.

CORE VALUES

MCBS embraces the following core values:

- freedom of expression and inquiry
- full access to opportunity
- support of religious heritage
- high academic and ethical standards and
- Professionalism of graduates.

PHILOSOPHY

MCBS is a center for learning, which guarantees admission to any qualified individual who wishes to pursue his/her post-secondary education or who wishes to enhance his or her educational skills.

MCBS recognizes that education beyond secondary school is necessary for an effective human capital development, for the development of an individual's interests and capacities, and for training responsible individuals who are able to make worthy contributions to the development of the Sultanate of Oman under the guidance and leadership of His Majesty Sultan Qaboos bin Said Al-Said.

MCBS believes that it is in a unique position to contribute to the Sultanate's overall educational program by offering higher education at a reasonable cost and by preparing Omanis for a brighter future in the twenty-first century. MCBS provides quality education at a lower cost than training Omanis abroad.

MCBS is an independent and a privately owned organization. It has the advantage of being able to develop close educational and collaborative partnerships with business, industry, government and other educational institutions both at the secondary and post-secondary levels.

MCBS is committed to developing and maintaining educational programs that provide the utmost flexibility to students. Its programs allow students to pursue educational goals that can be completed in Oman or completed in established Colleges and Universities overseas. MCBS offers Associate of Arts and Science Degrees as well as Bachelor of Arts and Bachelor of Science Degrees. Both the Associate Degrees and the Bachelor Degrees are based on the educational models of degrees offered in the United States.

COLLEGE PROGRAMS

Foundation Program

MCBS offers a Foundation Program which is approved by the Ministry of Higher Education and meets the guidelines established by the Accreditation Council for Foundation Programs in Oman. Under the format of this program, students study English and also two other modules: Mathematics and Information Technology (IT). A fourth module, Study Skills, is incorporated into all classes.

To complete the Foundation Program, students must complete four (4) levels of English, Basic Mathematics,

Applied (or Pure) Mathematics, and Information Technology (IT).

While completing the Foundation Program, students do not take any credit classes. The program is designed to be completed in one full year with a summer session and one additional academic semester.

English as a Second Language

English as a Second Language (ESL) Program offered at the Modern College of Business & Science is an integral part of the College's Foundation Program. It is geared to preparing the students to meet the academic requirements of studying in an American College environment. The program is intensive - students study English on a full time basis. Classes are offered during the day and during the evening for working students.

The ESL Program comprises four distinctive components of language skills:

Speaking and Listening & Note-Taking - These classes develop fluency and correctness in conversational English as well as improve listening and comprehensive skills necessary to take accurate notes in the class.

Reading & Writing: These classes develop reading and writing skills, including essay development, organization, vocabulary, and editing.

Grammar: These classes review grammar so that students can understand the meaning and use of structures in American English.

Levels of Instruction
The ESL program at MCBS is a steadily progressive plan that has **4** ESL Levels.

Mathematics

The Mathematics foundation courses are designed to ensure that students are equipped with the mathematical understanding and skills necessary to meet the cognitive and practical requirements of the academic program in a variety of disciplines.

The Mathematics foundation requirements are categorized into the following groups:

- Basic Mathematics (MATH 10) and Applied Mathematics (MATH 20) *or*
- Basic Mathematics (MATH 10) and Pure Mathematics (MATH 21)

The choice will depend on the intended academic program of study.

Information Technology

The Information Technology foundation course (COSC 10) is to ensure that students are equipped with the computing and IT understanding and skills necessary to source, process and communicate information related to their academic program.

Undergraduate Programs

Associate Degree Programs

The Associate Degree programs are the foundation degree programs of the College. The Associate Degree (diploma in the Omani qualification framework for higher education) is normally completed in two years or four academic semesters (excluding the Foundation Program.) After completion of this degree, students can enter the labor market immediately. Graduates with an Associate Degree also have the opportunity of continuing their studies to complete their Bachelor Degree or of transferring to another institution in the region or overseas to complete the remaining two years of study. The College has a precise articulation agreement with the University of Missouri, St. Louis (United States), to insure that students receive appropriate recognition and credit for the academic work completed. Under the provisions of this articulation agreement, students who have received a grade of "C-" or higher will receive credit for the work taken at the College. (Students should be aware that the final decision to grant or withhold credit rests with the host institution.) The College also places its graduates at other Colleges and Universities in North America and Canada if they wish to.

An Associate of Arts and Science Degree consists of a minimum of thirty hours (30) of General Education courses with the remaining hours being taken in the area of emphasis. A total of sixty to sixty six credit hours (60-66), depending on the academic area, are required for the Associate Degree.

The Modern College of Business and Science offers Associate of Arts and Science Degrees in the following areas: 1) Business Administration 2) Computer Science, and 3) Information Communication Technology. [1] In

[1] *The Associate of Arts and Science degree is provisionally accredited by the Accreditation Board of the Sultanate of Oman for all majors.*
** Provisionally accredited by the Accreditation Board of the Sultanate of Oman*

Business Administration, emphasis areas are available in the following subjects:

Accounting
Economics/Banking
Management
Marketing
Management Information Systems

Bachelor Degree Programs

The Bachelor of Arts/Science Degree consists of a minimum of 120 hours of course work and is normally completed in eight semesters (8) of academic work after the Foundation Program.

Bachelor Degrees are offered in the following areas:

Accounting (BS)
Airport Management (BS)
Business Administration (BS) *
Computer Science (BS)*
Economics (BA)*
Statistics (BS)
Information Systems (BS)

In Business Administration, students can do a general degree, completing 120 credit hours, or they can select from one of five emphasis areas: Accounting, Finance, Management and Organizational Behavior, Management Information Systems, and Marketing. To receive mention on the transcript for completing an emphasis area, students must complete 15 hours in the emphasis area.

Graduate Programs

Master's Degree Program

MCBS, in partnership with Franklin University of Columbus Ohio, USA, offers an American MBA degree. The program comprises ten courses. Five are offered by the faculty of Franklin University and five are offered by local/MCBS faculty. The basic MBA without specialization can be completed in three semesters. Students wishing to add a speciality area must take an addition of three graduate courses; Speciality areas include Finance and Accounting; Human Resource Management and Management Information Systems.
Students who register for the program are considered to be Franklin students and have complete access to the educational resources of the University.

A full time coordinator from Franklin University is resident on campus at MCBS.

COLLEGE REGULATIONS, ACADEMIC POLICIES AND PROCEDURES

ADMISSIONS GUIDELINES

Admission Policy

The MCBS admits students to all its rights, privileges and programs irrespective of their national origin, color, gender, disability or religion. The admission policy is based on the qualifications of the student holding a recognized high school diploma or its equivalent. The student will graduate with an accredited degree after he/she has successfully completed all of the necessary requirements.

Admission Requirements and Procedures

To apply to the Modern College of Business and Science, students must complete the following forms and ensure that they reach the Office of Admissions.

- A completed Application Form (Application forms can be obtained from the Office of Admissions)
- A recognized High School Diploma or its equivalent.
- A valid ID card/Passport copy for Omani applicants. A valid Passport and Residence card copy for non-Omani applicants.
- Four recent passport photographs.
- An amount of RO 50/- should be paid for admission.
- An amount of RO 120/- should be paid as visa processing fee for international students.

Admission as an International Student

The College welcomes the applications of students from other countries and believes that students from other countries and different cultures enrich the academic experience of all students.

International students who wish to study at the College must submit evidence of successful completion of high school, certificate of financial support from parents, guardians or sponsor, and evidence of English Language proficiency.

Placement Tests

All new students will take several examinations beginning with the English Proficiency Examination. As students progress through the program and other subjects are added, like Mathematics and IT, students will take additional proficiency examinations to determine their levels of

proficiency in these subjects. Based on the results of the English examination, students will be placed into Levels 1 to 4 of English and into the appropriate Mathematics and/or IT classes.

Students can also test out of all Foundation Program requirements and start academic classes on a full time basis.

REGISTRATION GUIDELINES

Registration Procedure

All students must apply for registration on the prescribed form. Such registration is necessary within the dates specified on the academic calendar. Inquiries regarding registration should be directed to the Registrar's Office.

New Students

- Each student will choose the desired courses in consultation with the assigned Admissions Advisor and according to the requirements of his/her study plan.
- Each admitted student should fill a Registration Form and submit it to the Admissions Office.
- To confirm the registration process, the student has to pay at least 25% of his/her fees, and get the form stamped by the Accounts Department before submitting it to the Registration Office.
- To finalize the registration procedure all financial obligation forms must be completed, stating the mode of payments with the Accounts Department.

Foundation Program

- Level 1 and Level 2 students will register only for English classes.
- At Level 3, students will register for English classes as well as (MATH 10) if they wish to pursue a degree program in this College.
- At Level 4, students will register for English classes as well as (MATH 20) and (COSC 10) if they wish to pursue a degree program in this College.

While in the Foundation Program, students will not be allowed to take any credit classes.

Academic Program

MCBS requires that all academic program students meet with their academic advisors before they can register for courses. The academic advisor will help the student to select the courses according to their degree audit.

In order to register, the students have to follow the steps mentioned below:

- Study the degree audit.
- Choose courses that are scheduled and required according to their semester plan.
- Meet the concerned Academic Advisor to register for the selected courses
- Pay the fees in the Accounts Department or make an arrangement with the Accounts Department and get the registration form stamped.
- Submit the registration form to the Registration Office.

Pre - Registration Process

Pre-registration is the period of time in the semester during which currently enrolled students sign up for the next semester courses (Refer to Admission & Registration Handbook for a detailed pre-registration process).

Record Services

Students are responsible for ensuring the accuracy of their records while studying at MCBS. Such records include, but are not limited to, personal information, degree program and/or major and grades. Official student records are maintained in the Registrar's Office.

Declaration of a Major Field of Study

Students are encouraged to declare a major as soon as possible after entering the College. Students who are applicants for Associate Degrees must declare a major at the end of their second semester. Bachelor Degree students are also encouraged to declare their major at that time. Advisors assist students in choosing their majors.

Changing Majors or Degree Programs

Students desiring to change degree programs or majors must obtain the Request for Academic Record Change from the Registrar's Office. Students will be directed to the appropriate persons for approval. Changes are not official until the required form has been completed, approved, and filed with the Registrar. Students are responsible for the initiation of this process.

Permanent Record

A permanent record, reflecting academic achievement, is maintained in the Registrar's Office for each student who registers at MCBS.

Disclosure of Student Record

The written consent of the student is officially required to disclose his/her academic record to any individual, institution or third party. Exceptions are made for parents, sponsors, authorized MCBS officials, and in compliance with a judicial order.

Transcripts

Students may obtain unofficial transcripts of their academic records from the Registrar's Office. Transcripts will only be released with a signed request from the student. The Registrar will issue only complete transcripts, not parts of the student record. The College will not make copies of transcripts on file from other colleges or universities.

Names on Diplomas and Degrees

The names of MCBS students on diplomas and degrees will be spelled in English exactly as they appear on the passports or identity cards or according to the personal preference of the student. If a name on a passport or an identity card does not appear in English, then the spelling of the name will be printed according to the personal preference of the student concerned.

Grade Reports

Grade Reports are mailed to all students at the end of each semester.

Fee Structure

ESL Tuition Fee

Day Classes

Level	Amount (RO)
Level 1	800/-
Level 2	800/-
Level 3	654/-
Level 4	600/-

Evening Classes

Level	Amount (RO)
Level 1	690/-
Level 2	690/-
Level 3	654/-
Level 4	600/-

Degree students should take the following subjects with the Foundation Program if they need to.

Basic Mathematics	RO 150/-
Applied/Pure Math	RO 150/-
Information Technology	RO 200/-

Academic Program Fees

Undergraduate Degree

Student fees at MCBS include the following: Educational Fee, Student Activity Fee, Instructional Computing Fee, a Special Course Fee, if applicable, and a Graduation Fee. The fee per Credit Hour is determined by the actual level of the course. The fee for courses normally taken in the first two years, termed "lower division" courses, is RO 86. The fee for courses normally taken in the third and fourth year and termed "upper division" courses, is RO 108. All Information Communication Technology Courses are RO 108 per Credit Hour.[2] The Office of Admissions maintains a listing of the courses and their fees per credit hour.

A fee installment plan is available for the convenience of students who are unable to make full payment at the time of registration. Students with delinquent accounts are blocked from registration for subsequent semesters.

Fees are prorated according to the number of hours taken in the semester. Each semester, in the timetable of classes, the schedule for Withdrawal/Drop dates is given with the percentage of fees that is kept and the percentage that is returned. It is the student's responsibility to be familiar with this schedule.

Detailed Cost Structure for Undergraduate Programs:[3]

Associate Degree

1. **Tuition Fee for Associate Degree in Business Administration (66 credits)**

   RO 86/- per credit hour (48 credit hours) &
   RO 108/- per credit hour (18 credit hours)
   Total Fees: RO 6072/-

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[2] *These fees are effective for students who first register for academic programs in the Fall Semester, 2008. Students who were registered in academic degree programs prior to the Fall Semester, 2008 are subject to 2007 fees. Students who were registered in academic programs before 2008 but who withdrew from the College for two semesters or longer are subject to 2008 fees.*

[3] *The total cost for a Degree will vary slightly depending on the level of elective courses taken for the Degree.*

2. **Tuition Fee for Associate Degree in Computer Science (60 Credits)**

   RO 86/- per credit hour (51 credit hours) &
   RO 108/- per credit hour (9 credit hours)
   Total Fees: RO 5444/-

3. **Tuition Fee for Associate Degree in Information Communication Technology (66 Credits)**

   RO 86/- per credit hour (36 credit hours) &
   RO 108/- per credit hour (30 credit hours)
   Total Fees: RO 6336/-

Bachelor Degree:

1. **Tuition Fee for Bachelor Degree in Business Administration (120 credits)**

   RO 86/- per credit hour (66 credit hours) &
   RO 108/- per credit hour (54 credit hours)
   Total Fees: RO 11508/-

2. **Tuition Fee for Bachelor Degree in Computer Science (120 Credits)**

   RO 86/- per credit hour (55 credit hours) &
   RO 108/- per credit hour (66 credit hours)
   Total Fees: RO 11726/-

3. **Tuition Fee for Bachelor Degree in Economics (120 Credits)**

   RO 86/- per credit hour (66 credit hours) &
   RO 108/- per credit hour (54 credit hours)
   Total Fees: RO 11508/-

4. **Tuition Fee for Bachelor Degree in Accounting (120 Credits)**

   RO 86/- per credit hour (51 credit hours) &
   RO 108/- per credit hour (69 credit hours)
   Total Fees: RO 11838/-

5. **Tuition Fee for Bachelor Degree in Information System (120 Credits)**

   RO 86/- per credit hour (48 credit hours) &
   RO 108/- per credit hour (72 credit hours)
   Total Fees: RO 11904/-

6. **Tuition Fee for Bachelor Degree in Airport Management (120 Credits)**

   RO 86/- per credit hour (42 credit hours) &
   RO 108/- per credit hour (78 credit hours)
   Total Fees: RO 12036/-

7. **Tuition Fee for Bachelor Degree in Statistics (120 Credits)**

   RO 86/- per credit hour (53 credit hours) &
   RO 108/- per credit hour (67 credit hours)
   Total Fees: RO 11794/-

The following are additional fees for all Associate Degree and Bachelor Degree programs.

Registration fees:		RO 20
Deposit:		RO 100
Use of College facilities (per semester):		RO 50
Textbooks (For Credit courses):	Approx.	RO 250

Refund of Fees

All refunds are made by checks and require two to four weeks processing time after withdrawing or dropping classes. Deductions will be made for any financial obligation to the College.

Payment Mode

Student fees for each semester are payable at the completion of registration for the semester. Personal checks, credit and debit cards are accepted for payment of the fees.

COURSE RELATED INFORMATION

Courses and Class Schedules

A schedule of classes is issued by the Office of the Registrar for each semester. Class schedules for the Summer Semester are also prepared by this office. All class schedules are available at no cost. They are also published on the College web site.

http://www.mcbs.edu.om

Course Prefix, Number, Title, Credit Hours and Additional Information

Each discipline or field or study offered by the College is summarized by a three or four letter prefix, followed by a number indicating the level of the course content. For example: MAT 30 College Algebra. In this example, MAT is the course prefix (which represents Mathematics) and 30 is the course number. This course is less advanced than 100 level introductory level courses. 200 level courses are more advanced than 100 level courses, etc.

Courses are offered at the discretion of each Department. Students should check with the respective academic departments for information about a particular course. The decision to offer a course is based on the students needs for the class in order to complete their academic programs. All courses which are required for a degree are taught on a regular basis.

Certain courses also have prerequisites, co-requisites and/or other criteria that are noted immediately following the course name and number. It is the students' responsibility to verify this information.

Course Value

All courses are valued in credit hours. Normally, each credit hour represents fifty minutes of class instruction, or 60-120 minutes of laboratory experience a week, each semester.

Course Descriptions and Syllabi

Descriptions of courses currently in the College curriculum are listed by course subject and code by discipline in the MCBS Course Catalog (page 34-56). Non-recurring topic courses, when offered, are published each semester in the Schedule of Classes. Course syllabi for all classes are available from the Registrar.

Course Prerequisites

Many courses above the introductory level require a minimum background of knowledge, as indicated by the prerequisite courses cited in the individual course description. Equivalent courses satisfactorily completed at other institutions may also meet prerequisite requirements by transfer credit. Students need to consult the Head of the Department for more information. Students are responsible for entering the class with the required competence.

Class Standing

Hours	Standing
0-29 credit hours	First Year (Freshman)
30-59 credit hours	Second Year (Sophomore)
60-89 credit hours	Third Year (Junior)
90 & above credit hrs	Fourth Year (Senior)

Grading System

The grade point average (GPA) is computed on a four-point scale. The following grading system is used at the Modern College of Business and Science:

A	Equals 4.00 grade points
A-	Equals 3.70 grade points
B+	Equals 3.30 grade points
B	Equals 3.00 grade points
B-	Equals 2.70 grade points
C+	Equals 2.30 grade points
C	Equals 2.00 grade points
C-	Equals 1.70 grade points
D	Equals 1.00 grade points
F	Equals 0. grade points

Grades not calculated in the grade point average are:

EX	Course satisfied by examination
I	Incomplete
L	Audit
N	Indicates no credit because of a grade replacement
NC	Course not approved for credit
R	Indicates that the grade received is for a course that has been repeated
S	Indicates satisfactory
U	Indicates unsatisfactory
TR	Transfer; credit counted
P	Indicates that a student has passed a course by participating in a College Level Proficiency Examination.
W	Withdrawal
Z	No grade given
AD/AF	Grades recalculated under the Amnesty program.

The grade point average, GPA, is calculated by multiplying the grade point value of the letter grade by the number of credit hours of the course. The result is the GPA points that the student has earned in the course. The sum of the GPA points of the courses taken is then divided by the total credit hours, GPA credits, to obtain the grade point average. The GPA is rounded to the nearest hundredth after the decimal point (e.g.; 2.75). The grades obtained in non-credit courses as well as in ESL courses are not included in the calculation of a student's grade point average. Courses which are transferred in from another College or University are also not counted in the calculation of a student's grade point average.

Academic Standing

Students shall maintain a satisfactory rate of progress in their programs and courses. Academic Department Heads will ensure that student progress is reviewed at regular intervals and that appropriate action is taken where progress is not satisfactory. This may include counseling, probation, suspension, academic amnesty or termination.

Good Academic Standing

A student is considered to be in Good Academic Standing if he/she maintains a semester grade point average and program cumulative grade point average of 2.0 or higher and less than 3.2.

Dean's List

The Office of the Registrar issues a Dean's List of Honor Students at the end of each semester. To be placed on the Dean's List, a student must:

- have registered and completed a minimum of nine credit hours for part time students or 12 credit hours for full time students in the semester.
- have at least a semester 3.2 GPA
- have no failing grades in any of his/her courses
- have no disciplinary actions against him/her

Academic Probation

Students are placed on academic probation if their cumulative grade point average for any semester falls below the required average of 2.0. A Full-time student on probation is allowed to carry a load of three courses with a maximum of eleven credit hours.

A Part-time student on probation is allowed to carry a load of one course with a maximum of five credit hours.

For students on probation, course loads are adjusted during summer sessions.

Academic Suspension

Probationary status will be removed at the end of any semester in which the student passes all courses and attains a cumulative GPA of 2.0. Students on probation are advised to repeat courses in which they have obtained failing grades.

A student may be placed on academic suspension if he/she fails to obtain the required grade point average of 2.0 by the end of the third semester on probation. Actions involving academic probation and suspension are entered on the student's permanent record and may not be removed without the approval of the Academic Board of the College.

Re-admission after Academic Suspension

When, in accordance with the College regulations, a student is suspended, consideration for re-admission is given only after the student is able to present a record of significant achievements at another acceptable institution of higher education or at an appropriate work environment for a minimum of one semester. All re-admission requests must be approved by the Head of the Department and the Dean of the College. Students who have been suspended for academic reasons and return to the College, have one year or two full semesters in which to re-establish their grade point average to a 2.0.

Academic Amnesty

The policy on academic amnesty allows students to re-establish their academic standing following a period of academic suspension. Academic amnesty allows students who have been placed on academic suspension to re-enter the College for one semester. If at the end of the first semester in residence after suspension, a student has completed nine credit hours with a GPA of 2.0 (a 'C' grade) academic amnesty is granted. Under the provisions of academic amnesty, grades of "D" and "F" will no longer be counted in a student's overall GPA. The transcript of each student who has been granted amnesty is amended to read, "Academic Amnesty granted" and the date of the action. However, the grades of "D" and "F" continue to appear on a student's transcript and students are required to repeat each course for which they have received amnesty.

Incomplete Grades

All work for a course must be completed no later than the day the semester ends. An Incomplete grade (I) is given as a final grade in a course only in cases involving a compelling medical or other emergency. To qualify for an "I" grade, students must have completed 75% of the coursework. All emergencies must be certified in written form. In the case of unexcused incomplete work, an "F" grade is given for the missing work and the course grade is computed accordingly. In the event that an "I" grade is awarded, all incomplete work must be made up within a period of one semester. After one semester, the grade of "I" is converted to a grade of "F". Students who believe that they have a compelling reason to appeal this conversion from "I "to "F" may make an appeal to the Academic Board of the College, which is the final authority in such issues.

It is the responsibility of the student to find out from his/her instructor the specific dates by which requirements must be fulfilled. The deadline for the submission of incomplete grades for a course by the instructor is seventy two (72) hours after the date of the make-up examination or submission of the final assignment.

Applications for an "Incomplete" grade are available in the Office of the Registrar.

Repeating Courses and Replacing Final Grades

In cases where a student receives a grade of "D" or "F" the first time a course is taken, the course may be repeated to earn a different grade. If a course is retaken, the grade received for the second attempt will replace the first grade received for the course, regardless of whether the grade is higher or lower than first received. (e.g. first grade "D," second grade "F," the "F" replaces the "D.") If a course is taken three or more times, the grades for the second and all subsequent attempts are computed in the GPA calculations. A student who is an applicant for a Bachelor's Degree may not attempt to replace the grades earned for more than fifteen (15) credit hours by repeating courses. A student in the Associate Degree programs is limited to nine credit hours.

Graduation Honors

The College grants Latin Honors at graduation. To be eligible for graduation honors, students must have completed at least one-half of the credit hours required for their degree in residence at the Modern College of Business and Science and achieved the requisite GPA. These are:

Summa cum Laude	3.80 - 4.00 GPA
Magna cum Laude	3.50 - 3.79 GPA
Cum Laude	3.20 - 3.49 GPA

Latin Honors are listed in the commencement program and on the student's diploma and permanent record.

ACADEMIC REGULATIONS & POLICIES

The academic regulations of the Modern College of Business and Science are promulgated by the Academic Board with the approval of the Dean of the College. They are published in their entirety in the MCBS Bulletin, which is revised annually. The Bulletin is printed bi-annually and is also available in digital format on the World Wide Web.

Student Academic Load

A student admitted to, and enrolled in a Degree program usually registers for 12-15 credit hours each semester. The required minimum load for all students is three (3) credit hours per semester, and the maximum load is fifteen (15) credit hours per semester. Under special circumstances, a student with a grade point average of 3.2/4.0 or better, may secure the permission of the Dean to register for up to eighteen (18) credit hours in any one semester. Academic programs are designed for completion in specific time frames. The Associate Degree Programs have been designed for completion in two (2) years. The Bachelor's Degree Program has been designed for completion in four (4) years.

The minimum graduation requirement for an Associate Degree varies from 60 to 66 credit hours. This depends on the program of study. The minimum graduation requirement for the Bachelor's Degree is 120 hours. Samples of study plans are provided in this catalog for each program.

Grade Appeals

All appeals relating to specific course grades require that students first seek a satisfactory solution with the instructor. If the matter is not resolved to the satisfaction of the student, he/she may appeal his or her case to the Registrar of the College. The final arbiter in matters involving appeal of grades is the Dean of the College. A grade appeal must be made before the end of the Drop and Add period in the regular academic semester immediately following the semester in which the grade has been awarded.

Supplementary Examination

MCBS is committed to assisting students in achieving their academic goals and recognizes that there are times when students with good academic standing will perform poorly in the final exams and as a result do not pass the course. Supplementary exams for the final exams will provide students an opportunity to demonstrate competence and overcome the course failure. The opportunity to write a supplementary examination is a privilege that is extended to students if they meet specific conditions.

Internship Substitution Course

An Internship Course can be substituted with another course for full time working students with a minimum experience of six months in the related area. Final approval of the Substitution request will be made by the Head of the Department. This course can be replaced with a course advised by the Head of the Department.

Lateness and Absenteeism

A student who misses 4 sessions is given a verbal warning by the instructor and his/her case is reported to the Student Counselor. A student who misses 6 sessions is reported to the Student Counselor who then sends a written warning to the sponsor/parent. A student who misses 8 sessions, despite verbal and written warnings, is reported to the Student Counselor and the final grade is lowered by one letter.

Student Grievances Policy

MCBS seeks transparency and fairness in the administration of its policies for all members of the academic community. For students, who feel that they have been treated unfairly by the College, procedures have been put in place to appeal the decision. The procedures for student grievances are outlined in the Student's Handbook.

Student Academic Integrity Code

Modern College of Business and Science (MCBS) affirms the importance of respecting the integrity of an individual's work. The Academic Integrity Code for MCBS describes standards for academic conduct, students' rights and responsibilities as members of an academic community and procedures for handling allegations of academic dishonesty. As an institution of higher learning, the College views academic integrity as an educational as well as a judicial issue. The main obligation of a student is to pursue conscientiously the academic objectives that he or she has chosen. Each student is required to conform to the regulations of the College, and of the classes for which he or she is registered. It is further expected that all examinations, tests, papers and other assignments will be completed according to the standards set forth in this code.

Academic Violations: Members of the academic community are expected to conduct themselves with integrity as a matter of course. Certain violations of ethical conduct relate specifically to matters of academic integrity. Academic violations include, but are not limited to the following:

- **Plagiarism:** To plagiarize is to use the work, ideas, images or words of someone else without attribution. Plagiarism may involve using someone else's wording – a distinctive name, a phrase, a sentence or an entire passage or essay – without using quotation marks or attribution. It may also involve misrepresenting the sources that were used. The issue of plagiarism applies to all student assignments.
- **Inappropriate Collaboration:** Inappropriate collaboration involves working with someone else in developing, organizing or revising a project (such as a paper, an oral presentation, and a research or design project or take-home examination) without acknowledging that person's help. The use of unauthorized assistance must be avoided in the production of all academic work.
- **Dishonesty in Examination and Submitted Work:** All academic work and materials submitted for assessment must be the sole, original work of the student, unless otherwise directed by the instructor. Communication is not allowed between or among students without explicit permission of the instructor. Cheating includes, but is not limited to: copying from another's paper, giving unauthorized assistance, obtaining unauthorized advance knowledge of examination questions, or use of mechanical or marking devices or procedures for the purpose of achieving false scores on machine-graded examination questions. Specific policies regarding examinations may vary with individual professors. Students are prohibited from submitting any material from another person or company.
- **Work completed for One Course and Submitted to Another:** Students may not present the same work for more than one course. Under exceptional circumstances, faculty members may permit a significant piece of research to satisfy requirements in two courses. However, both professors must agree in advance to this arrangement. Students are reminded that when incorporating their own past research in current projects, they need to reference such previous work.
- **Interference with Other Students' Work:** Students may not intentionally interfere with the work of others, such as sabotaging laboratory experiments, research or digital files, or by giving misleading information or disrupting class work.
- **Copyright Violations:** Copyright laws must be observed. These laws govern practices such as making use of printed materials, duplicating computer software, duplicating images, photoduplicating copyright materials and reproducing audio-visual work. The academic integrity code prohibits theft and the unauthorized use of documents and requires adherence to the laws of the Sultanate of Oman.
- **Misuse of Computer Resources:** Misuse of computer resources, which includes vandalism and introducing computer viruses to the system constitutes a violation of academic policy and is subject to the penalties associated with the offence.
- **Complicity in Academic Dishonesty:** Complicity in academic dishonesty consists of helping or attempting to help another person commit an act of academic dishonesty or wilfully assisting another student in the violation of the Academic Code of Integrity. The College

considers complicity as academic dishonesty which is pre-mediated and intentional.

Adjudication of Academic Offenses: Adjudication of academic offense procedures are established in line with the principles of academic integrity code. The adjudication process involves the student and the faculty member and the Dean of the College based on the intensity of the academic offense. The adjudication process aims to give effective and timely action to the parties of dispute.

Penalties: Penalties are awarded by the Dean taking into account both the seriousness of the offense and any particular circumstances involved. Penalties for an academic offense may include: re-submission of the work, submission of additional work for the course, lowered grade or loss of credit for the work and a failing grade of 'F'. For repeated violation of the code of academic honesty, a student may be suspended or dismissed from the College.

Records of Disciplinary Actions: All records pertaining to a student's violation of the academic code will be maintained for a period of five years after the student's last registration at the College. In the event that the penalties become part of the student's permanent record, the record will be maintained indefinitely. These records are subject to the College regulations. Upon written request, students have the right to inspect the records of their violations of the code.

Student Conduct: Student's conduct which is disruptive to the academic environment is strictly prohibited. This includes but is not limited to conduct and behavior that obstructs/destroys the use of the College facilities, use of offensive language, and behavior that jeopardizes the welfare of students, faculty and staff. Enforcement of Student's Code of Conduct is the responsibility of all administrative staff and faculty members. The College reserves the right to take appropriate disciplinary action, including suspension or dismissal.

Dress Code: In formulating this policy, the College has been mindful of the national heritage and culture of Oman and wishes to preserve them. Dress code standards are based on principles of neatness, cleanliness, and tasteful modesty. Omani male students must wear the national dress, the white dish-dasha and a turban or the Omani cap. Omani female students must use their judgment in dressing appropriately. Student members of other nationalities should wear proper dress like pant and shirt (Tight blue jeans and tight tops are not permitted.) and female students should use their judgment to dress appropriately.

ACADEMIC SUPPORT SERVICES & FACILITIES

Academic Advising

Academic advising is an essential element of the educational process. MCBS requires advisor-student conferences at least once each semester. The advisor assists the student in obtaining a well-balanced education and in interpreting College policies and procedures. However, students are responsible for selecting their courses, meeting course prerequisites and adhering to College policies and procedures. Students may also consult Faculty, Heads of Departments, or the Dean for additional assistance.

Students are assigned an academic advisor who will assist them in selecting their course of study and in planning their schedules. The academic advisor also approves the students' academic schedules each semester. Students who declare a major upon admission to the College are assigned an advisor by their respective academic departments. Students who have not decided upon a major field of study are assigned an academic advisor by the Registrar.

Library

The MCBS Library provides access to information in electronic, print, audiovisual, and multimedia formats. The library provides a comfortable environment and helpful services to support reading, research, and individual and group study.

The library attempts to fully meet the needs of the staff and the students. Its principal mission is to provide high quality educational and personal services and it is committed to developing collections in support of the present and future teaching and research objectives. The library is open during regular teaching hours.

Resources available in the library include:

- general and course-related books that may be borrowed by students and staff
- reference books for use in the library
- local and international newspapers in print and online
- magazines and journals on a wide variety of topics
- online access to journals and magazines
- e-books, online documents and reports

IT Support Service

IT Support is charged with maintenance of all learning resource units in the College. All the campus computers are

tied together into a local area network and this network supports instructional and administrative functions. This network is connected to the ISP through a fiber optic backbone. IT Support is also charged with maintenance of all learning resource units in the College. All computing laboratories are open during regular teaching hours.

Data Base Development Support

The Data Base Development Section developed the current Student Information System (SIS), and is charged with its maintenance and updates.

Math Lab

The Math Lab is a peer learning support program. In this program, students volunteer to tutor fellow students in Mathematics, Statistics, Accounting and Programming. The program is selective. Students volunteer to be tutors and are paid an honorarium. However, induction to the program is selective and only students who have excellent overall grade point averages are selected.

Faculty Assistance

Members of the faculty are readily available to assist students in their academic work outside of regular classroom and laboratory hours. Course syllabi contain a listing of times when faculty members normally are available for meetings with students. To arrange a meeting outside of the posted office hours, students should contact the faculty member directly.

Locker Facility

Lockers are available to students for the safe keeping of books and personal belongings.

Bookstore

All students registering for courses are advised to obtain the textbooks recommended by the faculty from the College bookstore.

STUDENT SUPPORT & STUDENT ACTIVITIES

The Student Services division of the College offers support services for students, enhances student learning and promotes student participation in social, cultural and recreational activities. The quality of student life outside the classroom is important to the students' total academic experience.

Orientation

Smooth transitions play a key role to happier and more successful College experiences. In order to make these transitions as seamless as possible, MCBS conducts a Student Orientation at the beginning of each semester for the benefit of the new students. Orientation helps students to:

- become acquainted with the College rules and regulations
- meet academic advisors
- meet faculty and staff
- become familiar with the physical layout of the campus
- meet current students who "know the ropes"

Student Council

MCBS has a Student Council for the purpose of students to have an effective means of providing input to the College administration to improve overall student life. The Council is composed of students from the College. The Student Council also provides many opportunities for student growth and leadership development such as:

- planning and organizing student activities;
- informing the administration about the student needs and recommendations;
- developing leadership qualities; and
- improving student morale.

The students of MCBS elect representatives and a President annually.

Career Services

MCBS provides many opportunities for career preparation and employment through course work and assignments, on-campus training, and internship programs.

Identity Cards

Each student will be issued an identity card upon admission. These should be produced on request by security personnel or any official or faculty member.

ACADEMIC DEPARTMENTS

Department of Business and Economics

The Business Department is committed to developing competencies which prepare students for highly successful careers in business and industry. The Department offers the following programs:

- Associate of Science Degree in Business Administration
- Bachelor of Science Degree in Business Administration
- Bachelor of Arts Degree in Economics
- Bachelor of Science Degree in Accounting
- Bachelor of Science Degree in Airport Management

ASSOCIATE OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

The Department of Business and Economics offers an Associate of Science Degree in Business Administration, which is a general degree, taking two years or four academic semesters to complete. The College offers students an option of selecting an emphasis area (also referred to as "majors" or "specializations") in:

- Accounting
- Economics/Banking
- Marketing
- Management
- Management Information Systems

Students who wish to complete the Associate Degree in Business Administration without an emphasis area must complete 60 credit hours. Students wishing to add an emphasis area must complete 66 credit hours. However these additional six credits will not be counted towards the credit requirements of the Bachelor's Degree program.

The Associate Degree at MCBS is organized to give students maximum flexibility and career choices. The completion of an Associate Degree enables the student to enter the employment market.

The Associate Degree consists of:

36 credits of General Education requirements
- 9 credits of Communications
- 9 credits of Mathematics and Computer
- 3 credits in Natural Sciences
- 12 credits from Social Science (Microeconomics and Macroeconomics are required)
- 3 credits from Non Business Electives

24 credits of General Business requirements
6 credits in the specialization (optional)

General Education Requirements (36 Credits)

Communicative/Language Skills (9 Credits)

ENG	101	English Composition I
ENG	102	English Composition II
ENG	212	Business Writing

Mathematics and Computer (9 Credits)

COSC	1300	Computer Applications in Business
MAT	100	Basic Calculus
MAT	105	Basic Probability and Statistics

Natural Sciences (3 Credits)

General Biology or any other Science Lecture Course

Social Sciences (12 Credits)

ECON	110	Principles of Microeconomics
ECON	120	Principles of Macroeconomics
POLSCI	140	Public Administration
POLSCI	180	International Relations
PSYCH	03	Psychology
SOC	10	Introduction to Sociology

Non Business Elective (3 Credits)

General Business Requirements (24 Credits)

ACT	140	Fundamentals of Financial Accounting
ACT	145	Managerial Accounting
BUS	101	Introduction to Business
BUS	156	Legal Environment of Business
MAN	210	Management & Organization Behavior
MAK	206	Basic Marketing
FIN	204	Financial Management
MIS	224	Managerial Applications of Object Oriented Programming

Total required for Associate of Science in Business: 60 credit hours (without specialization).

Specializations (6 credits optional)

Students can select an emphasis area in one of four areas by taking two additional courses from the list below. These courses are normally taken in the Summer Sessions.

Accounting Specialization (6 Credits)

BNK	130	Understanding Finance and Financial Statements
ACT	115	Computer Based Accounting
ACT	200	Auditing and Corporate Governance

Economics/Banking Specialization (6 Credits)

BNK	201	Corporate Banking
ECON	220	Money and Banking

Management Specialization (6 Credits)

MAN	195	Topics in Business Administration
MAN	220	Industrial Management
MAN	230	Professional Skill Development

Marketing Specialization (6 Credits)

MAR	115	Direct Marketing Methods
MAR	203	Business to Business Marketing
MAR	222	Sales Management

MIS Specialization (Management Information Systems)

MIS	110	Introduction to MIS
MIS	225	Managerial Applications of Object Oriented Programming II

BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION (BSBA)

All students willing to graduate with a Bachelor's Degree in Business Administration are required to successfully complete a total of at least 120 credit hours with a cumulative GPA of 2.0. Emphasis areas are available in: Accounting, Finance; Management and Organization Behavior; Marketing; and Management Information Systems.

Degree requirements are divided into two categories - General Education, and Business Education. General Education is further divided into Communication/Language Skills, Math and Computer Skills, Natural Science, Social Science, Humanities and Non Business Electives. Business Education is divided into general, specific and elective requirements.

In order to acquire a Bachelor's Degree the student should complete all the requirements listed against the respective categories. In addition, all students must take the Business Assessment Examination (BUS 390) administered by the Department

General Education Requirements:

60 credits of General Education

- 9 credit hours of Communicative Skills/ 9 credit hours of Mathematics and Computers
- 3 credit hours of Natural Science
- 18 credit hours of Social Sciences (Microeconomics and Macroeconomics are required)
- 12 credit hours of Humanities
- 9 credit hours of Non Business Approved Electives

General Business Requirements:

33 credits of General Business Courses

BUS	101	Introduction to Business
ACT	140	Fundamentals of Financial Accounting
ACT	145	Managerial Accounting
BUS	156	Legal Environment & Business
FIN	204	Financial Management
MAR	206	Basic Marketing
MAN	210	Management & Organizational Behavior
MIS	224	Managerial Applications of Object Oriented Programming I
BUS	250	Business Statistics
LOM	252	Introduction to Operations Management
BUS	390	Assessment Examination (0 credits)
BUS	391	Strategic Management

Business Elective (27 Credits)

15 credits in one discipline for major (emphasis)
12 credits of Business Electives from any other area

Major Requirements For A Bachelor's Degree In Business (15 Credits)

Accounting:

ACT	340/A	Financial Accounting and Reporting-I
ACT	340/B	Financial Accounting and Reporting-II
ACT	341	Financial Accounting and Reporting-III
ACT	344	Computer Applications in Accounting
ACT	345	Cost Accounting
ACT	348	Auditing

Finance:

FIN	334	Investments
FIN	337	Principles of Real Estate
FIN	350	Financial Policies
FIN	356	Commercial Bank Management
FIN	380	International Finance
FIN	338	Practice of Personal Financial Planning

Management and Organizational Behavior

MAN	309	Human Resource Management
MAN	311	Advanced Management and Organizational Behavior
MAN	317	International Management
MAN	319	Employee Training and Development
MAN	392	Entrepreneurship / Small Business Management

Marketing:

MAR	270	Management of Promotion
MAR	275	Marketing Research
MAR	301	Consumer Behavior
MAR	315	Marketing Management
MAR	316	International Marketing

Management Information Systems (MIS)

MIS	212	Database Management Systems
MIS	215	Information and Systems Analysis
MIS	225	Managerial Applications of Object Oriented Programming II
MIS	304	Management of Information Systems
MIS	310	Information Design System

Dual Emphasis Areas:

Students doing their BSBA Degree can choose to graduate with a dual emphasis in the following areas.

Management and Marketing
Accounting and Finance

Students who select this option must complete 15 credit courses from each emphasis area. This option is available only to students who have a cumulative grade point average of 2.5 or above.

BACHELOR OF ARTS DEGREE IN ECONOMICS

The Department of Business and Economics offers degree program for Bachelor of Arts in Economics, which qualifies students to pursue their careers in academic institutions, research, government and industry. The Bachelor's degree requires 120 hours and normally takes four years or eight semesters to complete. Students are required to complete a total of 33 credits as major requirements in Economics.

General Education Requirements:

54 credits of General Education

- 9 credit hours of Communicative Skills
- 9 credit hours of Mathematics and Computers
- 3 credit hours of Natural Science
- 18 credit hours of Social Sciences (Microeconomics and Macroeconomics are required)
- 9 credit hours of Humanities
- 6 credit hours of Approved Electives

General Requirements:

33 credits of General Courses in Business/Finance/Accounting related areas

Major Requirements

33 credits of major requirements in the area of Economics

General Education

Communicative Skills/Language		**(9 Credits)**
ENG	101	English Composition I
ENG	102	English Composition II
ENG	212	Business Writing

Mathematics & Computer		**(9 Credits)**
COSC	1300	Computer Applications in Business
MAT	100	Basic Calculus
MAT	105	Basic Probability & Statistics

Natural Science		**(3 Credits)**
BIO	100	General Biology
CHEM	10	Chemistry I
PHY	01	How Things Work

Social Science		**(18 Credits)**
ECON	110	Principles of Microeconomics (Required)
ECON	120	Principles of Macroeconomics (Required)
HIST	03	American Civilization
POL SCI	140	Public Administration
PHYSCH	03	General Psychology
POL SCI	180	International Relations
SOC	10	Introduction to Sociology

Humanities (9 Credits)

ENG	17	American Literary Masterpieces
ENG	112	Topics in Writing
ENG	126	Arab American Literature
ENG	140	World Literature
PHIL	154	Business Ethics
PHIL	160	Formal Logic
PHIL	360	Advanced Formal Logic

Approved Electives (6 Credits)

Students can take up to 6 Credits – Subjects other than in the area of Business & Economics . (Any course in Literature, Humanities, Social Science, Mathematics, Computer Science)

General Requirements (33 Credits)

ACT	140	Fundamentals of Financial Accounting
ACT	145	Managerial Accounting
BUS	101	Introduction to Business
BUS	156	Legal Environment of Business
BUS	390	Business Assessment Test
BUS	391	Strategic Management
ECON	265	Economic Statistics
FIN	204	Financial Management
LOM	252	Introduction to Operation Management
MAR	206	Basic Marketing
MAN	210	Management & Organizational Behavior
MIS	224	Managerial Applications of Object Oriented Programming I

Major Requirements (33 Credits)

BNK	201	Corporate Banking
ECON	135	Islamic Economy & Banking
ECON	200	Oman/AGCC Economies (Required)
ECON	205	Economic Development
ECON	207	Business Firm: History, Theory & Policy
ECON	220	Money, Banking & Monetary Theory
ECON	230	International Economics
ECON	251	Intermediate Economic Theory Microeconomics – I (Required)
ECON	252	Intermediate Economic Theory Macroeconomics – II (Required)
ECON	350	Mathematical Economics
ECON	360	Natural Resource Economics
ECON	395	Special Readings in Economics
ECON	396	Senior Project (Required)

BACHELOR OF SCIENCE DEGREE IN ACCOUNTING

The Bachelor of Science in Accounting strives to develop students to succeed in accounting careers. The program provides students the underlying accounting theory and practical skills necessary to successfully complete professional licensure examinations, practice proficiently, and adapt to professional developments through life- long learning.

Bachelor of Science in Accounting

TOTAL CREDITS 120, distributed as follows:

Communicative Skills/English	(9 Credits)
Math/Computer	(9 Credits)
Natural Science	(3 Credits)
Social Science	(18 Credits)
Humanities	(9 Credits)
Allied/Non Business Electives	(9 Credits)
General Business Requirements	(33 Credits)
Major Requirements	(30 Credits)
Total	**120 Credits**

Detailed Distribution

Communicative Skills **(9 Credits)**

ENG	101	English Composition I
ENG	102	English Composition II
ENG	212/ENG 205-	Business Writing/Business communication

Mathematics & Computer Science **(9 Credits)**

MAT	100	Basic Calculus
MAT	105	Basic Probability and Statistics
COSC	1300	Computer Applications in Business

Natural Science **(3 Credits)**

PHY	01	How Things Work
BIO	100	General Biology

Social Science **(18 Credits)**

BUS	301	Research Methods
ECON	110	Principles of Micro Economics (Required)
ECON	120	Principles of Macro Economics (Required)
HIST	03	American Civilization
POLSCI	140	Public Administration
PSYCH	03	General Psychology
POLSCI	180	International Relations
SOC	10	Introduction to Sociology

Humanities **(9 Credits)**

PHIL	154	Business Ethics (Required)
PHIL	160	Formal Logic
PHIL	360	Advanced Formal Logic
ENG	140	World Literatures
ENG	112	Topics in Writing

Non Business Electives **(9 Credits)**

Select any three credit courses from areas other than business approved electives.

General Business Requirements **(33 Credits)**

BUS	101	Introduction to Business
ACT	130	Accounting Concepts
ACT	140	Fundamental of Financial Accounting
ACT	145	Managerial Accounting
BUS	156	Legal Environment of Business
FIN	204	Financial Management
MAR	206	Basic Marketing
MAN	210	Management & Organizational Behavior
BUS	250	Business Statistics
BUS	210	Oman Business Law
ACT	345	Cost Accounting
BUS	390	Business Assessment Test (no credit)

Major Requirements **(30 Credits)**

ACT	340A	Fin. Accounting & Reporting I
ACT	340B	Fin. Accounting & Reporting II
ACT	341	Financial Accounting and Reporting III
ACT	344	Computer Applications in Accounting.
ACT	348	Auditing
ACT	349	Business Income Taxation-
ACT	436	Financial Statement Analysis (Advanced)

Select any 3 Courses from the following **(9 credits)**

ACT	370	Developments in Accounting
ACT	343	Accounting for Governmental/Non profit Entities
ACT	342	Advanced Financial Accounting
ACT	4900/4399	Internship/Accounting Project (major)

BACHELOR OF SCIENCE DEGREE IN AIRPORT MANAGEMENT

The Bachelor of Science degree in Airport Management is a Bachelor Degree Program which requires completion of 120 credit hours. The program combines essential topics in the management and operation of key segments of the Airport Industry with the study of Business/Management courses.

The Bachelor Degree Program prepares graduates to be generalists in the area of Airport Management or to be more involved in all phases of the operation of airports. Because of local economic conditions in the Gulf, the prospects for this sector of the economy are particularly good. Many new airports will be built in the next decade and global air operations are slated to continue to increase.

Degree requirements are divided into the following categories:

Communication Skills/English	(12 Credits)
Math/Computer Science	(9 Credits)
Natural Science	(3 Credits)
Social Sciences	(9 Credits)
Humanities	(9 Credits)
Business Electives	(21 Credits)
Airport Management Electives	(30 credits)
Technical Electives	(6 Credits)
Airport Management Core courses	(21 credits)

Detailed Distribution

Communicative Skills		**(12 credits)**
ENG	101	English Composition – I
ENG	102	English Composition – II
ENG	213	Technical Writing
ENG	105	Public Speaking

Mathematics & Computer Science		**(9 Credits)**
COSC	1300	Computer Applications in Business
MAT	100	Basic Calculus
MAT	105	Basic Probability and Statistics

Natural Science		**(3 Credits)**
BIO	100	General Biology
PHY	01	How Things Work
CHEM	10	Chemistry

Social Science		**(9 credits)**
ECON	110	Principles of Micro Economics (Required)
ECON	120	Principles of Macro Economics(Required)
POLSCI	140	Public Administration
PHYSCH	03	General Psychology
SOC	10	Introduction to Sociology
HIST	03	American Civilization
POLSCI	180	International Relations

Humanities		**(9 Credits)**
PHIL	154	Business Ethics (Required)
PHIL	160	Formal Logic
PHIL	360	Advanced Formal Logic
ENG	126	Arab American Literature
ENG	140	World Literature
ENG	112	Topics in Writing
COM	70	Introduction to Cinema

Business Electives		**(21 Credits)**
ACT	140	Fundamentals of Financial Accounting
ACT	145	Managerial Accounting
BUS	156	Legal Environment of Business
FIN	204	Financial Management
MAR	206	Basic Marketing
MAN	210	Management & Organizational Behavior
BUS	250	Business Statistics

Airport Management Electives		**(30 Credits)**
AVIA	111	Introduction to Aviation Management
AVIA	211	Aviation Safety and Security
AVIA	214	Principles of Accident Prevention and Causation
AVIA	215	Introduction to Aviation Law and Policy
AVIA	312	Human Resource Management in the Aviation Industry
AVIA	305	Introduction to Meteorology
AVIA	308	Air Operations Management
AVIA	309	Air Traffic Control

AVIA	207	Introduction to Air Transportation
AVIA	208	Economics of Air Transportation
AVIA	389	Internship
AVIA	393	Strategic Management of Aviation Industry

Technical Electives (6 Credits)

6 hours of upper division courses in aviation in related areas which support the content of the program and allow for a more in depth study of the industry. Topics for study include Corporate Aviation Management, Sport Aviation Management; Aeronautics; Aerodynamics; Globalization of the Aviation Industry. Each course functions like an independent study but is taught in a group. Courses can be repeated with different topics.

AVIA	349	Special Topics in Aviation Management
AVIA	351	Special Topics in Aviation Science

Airport Management Core Courses (21 Credits)

AVIA	120	Introduction to Airline Management
AVIA	121	Introduction to Air Port Management
AVIA	218	Airport Planning and Design
AVIA	226	Airport Administration and Finance
AVIA	318	Airports and the Environment
AVIA	320	Airport Marketing
AVIA	325	Air Cargo
AVIA	330	Special Topics: Airline Operations
AVIA	335	Airline Marketing and Promotion
AVIA	361	Public Policy and Regulatory Issues in the Industry

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

The Mission of the Department of Mathematics and Computer Science is to provide high quality teaching, creating an environment in which an individual can achieve full potential, while embracing the highest ethical standards.

The Department offers the following programs:

- Associate of Science Degree in Computer Science
- Associate of Science Degree in Information Communication Technology
- Bachelor of Science Degree in Computer Science
- Bachelor of Science Degree in Information Systems
- Bachelor of Science Degree in Statistics

ASSOCIATE OF SCIENCE DEGREE IN COMPUTER SCIENCE

The Associate Degree Program in Computer Science deals with the theoretical and practical aspects of computers and computer applications and hardware. Students can use this knowledge to develop computer applications, create databases to store and manage large volumes of data, and design small networks. The curriculum covers Programming, Data Structures, Discrete Mathematics, Database Systems, Data Communications and Computer Architecture.

The Associate Degree in Computer Science is a focused Degree which requires 60 credit hours of study. Usually students are able to complete the Degree in two years or four academic semesters.

The Associate of Science Degree consists of:
26 credits from General Education
30 credits Computer Science and 4 credits from other Related Areas

General Education Requirements (26 credits)

Communication Skills (6 Credits)

ENG	101	English Composition I
ENG	102	English Composition II

Humanities /Social Sciences Electives (9 Credits)

ENG	17	American Literary Masterpieces
PHIL	160	Formal Logic
PHIL	258	Ethics and the Computer
POL SCI	140	Public Administration
POL SCI	180	International Relations
PSYCH	03	Introduction to Psychology
SOC	10	Introduction to Sociology

Note : Other options exist in this area

Mathematics (11 Credits)

MAT	80	Analytical Geometry & Calculus I
MAT	132	Applied Statistics
MAT	255	Discrete Mathematics

Computer Science Core Components (21 Credits)

CPT	182	Programming in C
CPT	201	Introduction to Java Programming
CPT	220	Data Structures & Problem Solving
CPT	240	Computer Systems I: Architecture & Organization
ICT	205	Software Engineering
ICT	220	Database Management Systems
ICT	225	Data Communications & Networks

Computer Science Electives **(9 Credits)**

CPT	170	Programming with Visual Basic
CPT	241	Computer Systems II: Programming
CPT	274	Object–Oriented Programming with C++
CPT	275	Advanced Programming Techniques
CPT	278	Design and Analysis of Algorithms
CPT	301	Web Programming Techniques
ICT	128	Web Application Techniques

Related Area Requirements **(4 Credits)**

PHYS	1401	Physics I

ASSOCIATE OF SCIENCE DEGREE IN INFORMATION COMMUNICATION TECHNOLOGY

The Associate Degree Program in Information Communication Technology will equip the students to develop the information technology skills they need to succeed in today's professional environment. It provides a solid foundation in areas of programming practices, development cycle, project specifications, web programming, data storage and the role of technology applications in business strategy.

The Associate Degree in Information Communication Technology is a focused degree which requires 66 credit hours of study. Students usually finish all of the audit requirements within 2 years or four academic semesters.

The Associate of Science Degree consists of:

27 credit hours from General Education
39 Information Communication Technology Core credit hours

General Education Requirements **(27 Credits)**

Communication **(6 Credits)**

ENG	101	English Composition I
ENG	102	English Composition II

Mathematics **(6 Credits)**

MAT	100	Basic Calculus
MAT	105	Basic Probability and Statistics

Business **(6 Credits)**

BUS	101	Introduction to Business
ACT	140	Fundamentals of Financial Accounting

Humanities **(3 Credits)**

PHIL	160	Formal Logic
PHIL	258	Ethics and the Computer

Note : Other options exist in this area

Natural and Applied Sciences **(3 Credits)**

BIO	100	General Biology
CHEM	10	Fundamentals of Chemistry
PHY	01	How Things Work

Social Sciences Requirement **(3 Credits)**

ECON	110	Principles of Microeconomics
POL SCI	140	Public Administration
POL SCI	180	International Relations

PSYCH	03	Introduction to Psychology
SOC	10	Introduction to Sociology

Note : Other options exist in this area

Program Core Requirements (39 Credits)

CPT	170	Programming with Visual Basic
CPT	182	Programming in C
CPT	201	Introduction to Java Programming
ICT	101	Fundamentals of IT
ICT	125	Computer Architecture & Organization
ICT	128	Web Application Techniques
ICT	130	Introduction to Operating System
ICT	145	Internship
ICT	205	Software Engineering
ICT	220	Database Management Systems
ICT	225	Data Communication and Networks
ICT	230	Advanced Java programming
ICT	250	Project I

BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE

The Bachelor of Science Degree in Computer Science provides students with an essential background for studying the design and implementation of Computer System Software, Computer Architecture, and Computer Software Applications for Science and Business. The program emphasizes both computer system fundamentals and computer software applications. The required areas of study include Data Structures, Analysis of Algorithms, Assembly Language, Computer Architecture and Language Translation, Operating Systems and Specialized Electives.

All students wishing to graduate with a Bachelor of Science Degree in Computer Science are required to successfully complete a total of at least 120 semester credit hours with a cumulative GPA of 2.0.

Degree requirements are divided into four categories:

- General Education Requirements (46 Credits)
- Computer Science Core Requirements (45 Credits)
- Computer Science Electives (15 Credits)
- Related Area Electives (14 Credits)

GENERAL EDUCATION REQUIREMENTS (46 CREDITS)

Students should check with their academic advisors for an up to date list of all classes that meet each sectional requirement of General Education.

Communication (9 credits)

ENG	101	English Composition I
ENG	102	English Composition II
ENG	213	Technical Writing

Humanities Electives (9 credits)

ENG	17	American Literary Masterpieces
PHIL	160	Formal Logic
PHIL	258	Ethics and the Computer (Required)
PHIL	280	Philosophy of Science
PHIL	360	Advanced Formal Logic
ENG	140	World Literature

Note : Other options exist in this area

Social Sciences Electives (9 credits)

ECON	110	Principles of Microeconomics
ECON	120	Principles of Macroeconomics
POL. SCI	140	Public Administration
POL. SCI	180	International Relations
PSYCH	03	Introduction to Psychology
SOC	10	Introduction to Sociology

N*ote : Other options exist in this area*

Mathematics Requirements (19 credits)

MAT	80	Analytical Geometry & Calculus I
MAT	132	Applied Statistics I
MAT	175	Analytical Geometry & Calculus II
MAT	245	Elementary Linear Algebra
MAT	255	Discrete Structures

Computer Science Core Requirements (45 Credits)

CPT	182	Programming in C
CPT	201	Introduction to Java Programming
CPT	220	Data Structures & Problem Solving
CPT	240	Computer Systems I: Architecture & Organization
CPT	241	Computer Systems II: Programming
ICT	205	Software Engineering
ICT	220	Database Management Systems
ICT	225	Data Communications & Networks
CPT	274	Object Oriented Programming with C++
CPT	275	Advanced Programming Techniques
CPT	278	Design and Analysis of Algorithms
CPT	325	Programming Languages
CPT	328	Program Translation Techniques
CPT	376	Operating Systems
CPT	390	Computer Science Project

Computer Science Electives (15 Credits)

CPT	301	Web Programming Techniques
CPT	302	Java and Internet Programming
CPT	304	Electronic Commerce Protocols
CPT	305	User Interface Development
CPT	330	Introduction to Artificial Intelligence
CPT	352	Object-Oriented Analysis and Design
CPT	362	Information Retrieval
CPT	373	Computer Networks and Communications
CPT	374	Client-Server Architectures
CPT	381	Topics in Computer Science
MAT	202	Differential Equations
MATH	2311	Calculus III
MAT	323	Numerical Analysis I
ICT	145	Internship

Other possibilities exist.

Related Area Requirement (14 credits)

Students must take an additional 14 credit hours from the following categories: Natural Science; Humanities; Social Sciences; Information Technology; or Business. Eight credits must be taken in Physics.

1. PHYSICS

PHYS	1401	Physics I
PHYS	2401	Physics II

Minor in Mathematics:

Students who complete all course requirements for a Bachelor of Science Degree in Computer Science receive a Minor in Mathematics by virtue of completing:

MAT	80	Analytic Geometry and Calculus I
MAT	175	Analytic Geometry and Calculus II
MATH	2311	Calculus III
		AND

One additional course in Mathematics numbered above 175.

BACHELOR OF SCIENCE DEGREE IN INFORMATION SYSTEMS

The Bachelor of Science in Information Systems (BSIS) Program equips students with critical skills and knowledge required to direct and to control computerized information resources within diverse organizational settings. Information Systems (IS) is a dynamic specialization area within the computing field, focusing on the study of designing and applying computer and web-based systems and Information Technology (IT) to support the informational and decision making needs of users and organizations. IS focuses on the design, application and evaluation of computers and information systems to all fields.

All students wishing to graduate with a Bachelor of Science Degree in Information Systems are required to successfully complete a total of at least 120 semester credit hours with a cumulative GPA of 2.0.

Degree requirements are divided into five categories:

General Education Requirements (48 Credits)
Business Requirements (21 Credits)
Information Systems Requirements (18 Credits)
Information Systems Specialization (18 Credits)
Information Systems Electives (15 Credits)

General Education Requirements (48 Credits)

Students should check with their academic advisors for an up to date list of all classes that meet each sectional requirement of General Education.

Communicative/Language Skills (9 credits)

ENG	101	English Composition I
ENG	102	English Composition II
ENG	212	Business Writing /
ENG	213	Technical Writing

Mathematics & Computer Requirements (15 credits)

CPT	103	Computer Information Systems /
ICT	101	Fundamentals of Information Technology
CPT	182	Programming in C
MAT	90	Calculus Concepts /
MAT	100	Basic Calculus

MAT	105	Basic Probability and Statistics
MAT	245	Elementary Linear Algebra /
MAT	255	Discrete Structures

Natural Science (3 credits)

BIO	100	General Biology
PHY	01	How Things Work
CHEM	10	Chemistry I

Social Sciences Electives (9 credits)

ECON	110	Principles of Microeconomics(Required)
ECON	120	Principles of Macroeconomics
POL. SCI	140	Public Administration
POL. SCI	180	International Relations
PSYCH	03	Introduction to Psychology
SOC	10	Introduction to Sociology

N*ote : Other options exist in this area*

Humanities Electives (9 credits)

ENG	17	American Literary Masterpieces
PHIL	160	Formal Logic
PHIL	258	Ethics and the Computer (Required)
PHIL	280	Philosophy of Science
PHIL	360	Advanced Formal Logic
ENG	140	World Literatures
PHIL	2310	Personal & Professional Ethics

N*ote : Other options exist in this area*

Free Electives (3 credits)

Business Requirements (21 credits)

ACT	140	Fundamentals of Accounting
ACT	145	Managerial Accounting
BUS	101	Introduction to Business
BUS	156	Legal Environment of Business
BUS	250	Business Statistics
MAN	210	Management and Organizational Behavior
MAR	206	Basic Marketing

Information Systems Requirements (18 credits)

ICT	128	Web Application Technique
CPT	170	Programming with Visual Basic
ICT	125	Computer Architecture & Organization
ICT	225	Data Communication and Networks
MIS	280	Electronic Business Strategy
MIS	285	Project Management & Practice

Information Systems Specialization (18 credits)

MIS	224	Managerial Applications of Obj. Oriented Programming I /
CPT	201	Introduction to Java Programming
MIS	212	Database Management Systems /
ICT	220	Database Management Systems
MIS	215	Information & Systems Analysis
MIS	225	Managerial Applications of Obj. Oriented Programming II /

ICT	230	Advanced Java Programming
MIS	304	The Management of Information Systems
MIS	310	Information Systems Design

Electives **(15 credits)**

ICT	205	Software Engineering
ICT	340	Wireless and Mobile Communications
ICT	361	Network Security
ICT	371	Network Management
CPT	220	Data Structures & Problem Solving
CPT	275	Advanced Programming in UNIX
CPT	301	Web Programming Techniques
CPT	302	Java and Internet Programming
CPT	304	Electronic Commerce
CPT	373	Computer Networks and Communications
FIN	204	Financial Management
LOM	252	Logistics & Operations Management
MIS	306	Decision Support System
MIS	309	Information Technology Hardware & System
MIS	312	Information Systems Security
MIS	319	Topics in Information Systems
MIS	320	Information System Project (Required)
ICT	145	Internship

BACHELOR OF SCIENCE DEGREE IN STATISTICS

The Bachelor of Science Degree in Statistics is designed to provide students with an understanding of the concepts of statistical inference and a familiarity with the methods of applied statistical analysis. Statistics is the science of modeling, summarizing, and analyzing data, and of using mathematics and computing tools to make predictions and decisions in the face of uncertainty. Statistical ideas are applicable in any area involving quantitative measurement and in almost every area of scholarly pursuit.

All students wishing to graduate with a Bachelor of Science Degree in Statistics are required to successfully complete a total of at least 120 semester credit hours with a cumulative GPA of 2.0.

Degree requirements are divided into six categories:

Communication Skills/English 12 credits,
Social Sciences 9 credits
Humanities 9 credits
Natural Science 8 credits
Business Electives for Statistics 9 credits
Computing Requirements 9 credits
Program Requirements 49 credits
Statistics Electives 15 credits

Communication Skills **(12 credits)**

ENG	101	English Composition I
ENG	102	English Composition II
ENG	213	Technical Writing
ENG	105	Public Speaking

Humanities Electives **(9 credits)**

ENG	17	American Literary Masterpieces
PHIL	160	Formal Logic

PHIL	258	Ethics and the Computer
PHIL	280	Philosophy of Science
PHIL	360	Advanced Formal Logic
ENG	140	World Literature

Note : Other options exist in this area

Social Sciences Electives (9 credits)

ECON	110	Principles of Microeconomics
ECON	120	Principles of Macroeconomics
POL. SCI	140	Public Administration
POL. SCI	180	International Relations
PSYCH	03	Introduction to Psychology
SOC	10	Introduction to Sociology

Note : Other options exist in this area

Natural Science (8 credits)

PHYS	1401	Physics I
PHYS	2401	Physics II

Computer Requirements (9 credits)

CPT	170	Programming in VB
CPT	182	Programming in C
CPT	220	Data Structures & Problem Solving

Business Electives for Statistics Majors (9 credits)

BUS	101	Introduction to Business
ACT	140	Fundamental of Financial Accounting
ACT	145	Managerial Accounting

Program Requirements (49 credits)

MAT	80	Analytical Geometry & Calculus I
MAT	175	Analytical Geometry & Calculus II
MATH	2311	Calculus III
MAT	105	Basic Probability and Statistics
BUS	250	Business Statistics
MAT	245	Elementary Linear Algebra
MAT	255	Discrete Mathematics
STAT	2310	Regression Analysis
STAT	3330	Analysis of Variance
STAT	2320	Statistical Software and Data Analysis
STAT	2350	Probability Theory
STAT	3360	Statistical Inference
STAT	4370	Senior Seminar
STAT	4371	Time Series Analysis
STAT	4399	Internship

Statistics Electives (15 credits)

STAT	3340	Introduction to Bayesian Data Analysis
STAT	4330	Categorical Data Analysis
STAT	4360	Applied Multivariate Data Analysis
STAT	4341	Applied Spatial Statistics
STAT	4344	Nonparametric Methods
STAT	4358	Introduction to Stochastic Processes
STAT	4362	Applied Survival Analysis

Department of Humanities and Social Sciences

The Department of Humanities and Social Sciences administers the General Education Program of the College. Students do not major in any of the areas offered by the Department. Rather, the Department provides courses for major areas of study, which are essential to a University Degree under the American Degree System.

General Education

The College recognizes the importance of a broad education outside of a student's major area of study and for this reason maintains a General Studies Program.

This program consists of courses in the areas of:

1. Communications
2. Humanities
3. Social Sciences
4. Life and the Natural Sciences, and Interdisciplinary Studies.

General Education Requirements

All majors must satisfy the College's General Education requirements. The credit hour requirements vary with each degree objective but range from 30 to 60 credit hours for degrees offered by the College.

The classes listed below provide students with options to fill the requirements of the Associate and Bachelor's Degrees.

ART	100	Introduction to Middle Eastern Art	HIST	06	European Civilization II
COM	30	Interpersonal Communication	HIST	07	World Civilization I
COM	40	Intercultural Communication	HIST	08	World Civilization II
COM	70	Introduction to the Cinema	HIST	104	Topics in American Civilization
BIO	100	Introduction to Biology	HIST	200	Topics in World Civilization
ENG	17	American Literary Masterpieces	IDS	220	Contemporary American Culture
ENG	101	English Composition I	PSYCH	03	Introduction to Psychology
ENG	102	English Composition II	PHIL	101	Introduction to Philosophy
ENG	105	Introduction to Public Speaking	PHIL	154	Introduction to Business Ethics
ENG	112	Topics in Writing	PHIL	160	Formal Logic
ENG	132	English Literature	PHIL	258	Ethics and the Computer
ENG	140	World Literature	PHIL	280	Philosophy of Science
ENG	212	Business Writing	PHIL	360	Advanced Formal Logic
ENG	213	Technical Writing	PHIL	2310	Personal and Professional Ethics
ENG	280	Topics in Arabic Literature	Phil	190	Philosophy of Religion
ENGL	2320	Contemporary World Literature	PHY	001	How Things Work
GEDU	132	Personal Health	POL.SCI	140	Public Administration
HIST	03	American Civilization I	POL.SCI	180	International Relations
HIST	04	American Civilization II	SOC	10	Introduction to Sociology
HIST	05	European Civilization I			

The College is committed to maintaining a strong General Education Program to increase the breadth of the curriculum for its students.

COLLEGE OUTREACH PROGRAMS

The Center for Research and Consultancy

The Center for Research and Consultancy (CRC) of the Modern College of Business and Science is unique in Oman. CRC was established in 1998. The Center is involved on issues related to Oman's economy and development and provides outreach and consulting services to Oman's business and industries. Activities of the Center are result-oriented, and ensure total satisfaction to clients. The Center also organizes seminars and workshops on demand. The CRC activities are Internal R&D, Labor Market Research, HRD, Solution to Enterprise Development; Seminars, Workshops and Training Programs; Evaluation; Feasibilities & Studies. Clients include Government Establishments, Industries, Banks, and Financial Establishments.

Course Descriptions

Note: The list of courses is presented alphabetically by Subject Title. Courses are listed under each Subject in numerical order starting from lowest to the highest.

ACT - ACCOUNTING

ACT 115 Computer Based Accounting (3)

Prerequisite: ACT 140.

This course introduces students to concepts of Managerial and Financial Accounting using computer based software packages "Excel" and "Tally."

ACT 140 Fundamentals of Financial Accounting (3)

Prerequisite: MAT 30.

This is a course in Financial Accounting theory and practices, with primary emphasis upon the accounting cycle and the preparation and interpretation of corporate financial statements.

ACT 145 Managerial Accounting (3)

Prerequisites: Math 30 and ACT 140.

This is an advanced course that goes beyond the scope of a second semester course in Fundamentals of Accounting. The development, interpretation and use of relevant cost behavior, control and traceability concepts for management planning, controlling and decision making are emphasized. Topics include: an introduction to product costing, performance standards and variance analysis, responsibility accounting, segment profitability, alternative choice decisions, and capital budgeting.

ACT 200 Auditing and Corporate Governance (3)

Prerequisite: ACT 140.

The course is intended to help students develop critical and analytical abilities in regard to Financial Accounting and Auditing Topics and theory. Further it will enhance students' understanding of the relationships that exist between financial reporting and auditing. The course also helps students to understand the concepts on corporate governance.

ACT 340/A Financial Accounting and Reporting I (3)

Prerequisites: A minimum GPA Of 2.0, MAT 30, ACT 145, and Sophomore Level.

Accounting theory and practice related to the acquisition, use, and disposal of assets (excluding long-term investments in securities). The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACT 340/B Financial Accounting and Reporting II (3)

Prerequisites: A minimum GPA Of 2.0, MAT 30, and ACT 340/A.

Accounting theory and practice related to such topics as current and long-term liabilities, stockholders' equity, investments, statement of cash flows, and financial statement analysis. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACT 341 Financial Accounting and Reporting III (3)

Prerequisites: A minimum 2.0 overall GPA, and ACT 340/B.

Accounting theory and practice related to topics such as income taxes, pensions, owners' equity, earnings per share, and the statement of cash flows. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACT 344 Computer Applications in Accounting (3)

Prerequisites: A minimum GPA Of 2.0, MAT 30, CPT 103, and ACT 145.

Managerial and Financial Accounting applications of computers-budgeting, financial planning and analysis, and accounting information processing systems. The student is introduced to software similar to that used by small and medium-sized businesses. Microcomputers are used to perform operations involving general ledger, accounts receivable, accounts payable, financial statement analysis, depreciation and payroll. A portion of the course involves using electronic spreadsheet in planning and managerial decision making.

ACT 345 Cost Accounting (3)

Prerequisites: A minimum GPA of 2.0, Mat 30, ACT 145 and Junior Level.

The study of the basic principles of cost determination for, and control of, manufacturing and distribution activities. Topics include job-order costing, process costing, cost allocations, and the development and use of standard costs within a system of absorption costing.

ACT 348 Auditing (3)

Prerequisites: A minimum GPA of 2.0, ACT 344, ACT 340/B, and Senior Level.

An introduction to auditing practice. Includes the social role of auditing and the services offered by auditors in internal, governmental, and public accounting practice. Emphasis is on the financial auditing process, including professional ethics, audit risk assessment, study and evaluation of internal control, gathering and evaluating audit evidence, and audit reporting decisions.

ART

ART 100 Introduction to Middle Eastern Art (3)

A survey of major achievements in Arabian and Islamic architecture, sculpture, and painting from the Middle East and Islamic countries. Emphasis on religious, historical and social contexts of the arts.

AVIA – AIRPORT MANAGEMENT

AVIA 111 Introduction to aviation management (3)

Pre requisite: ENG 101 (Concurrent)

An introduction to the study of the aviation industry including management issues, critical policies, administrative functions and other issues.

AVIA 120 Introduction to airline management (3)

Pre requisite: ECON 110, AVIA 111

An introduction to the managerial aspects of the airline industry: economic and organizational characteristics, marketing, operational scheduling, fleet planning, and labor relations.

AVIA 121 Introduction to airport management (3)

Pre requisite: ECON 110, AVIA 111

This course provides an understanding of the airport as an essential part of the air transport system. The course investigates the airport functional departments, examines the airport master planning process, and reviews the operational and management services of both large and small airports and considers environment parameters.

AVIA 207 Introduction to Air Transportation

Pre requisite: ECON 120

A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered in commercial air transportation, future requirements, airline operations, economics, and social implications

AVIA 208 Economics of Air Transportation

Pre requisite: AVIA 207

Main development phases of the Oman air transport industry, overview of current air transport policies, the roles and responsibilities of national and international control bodies, the cost of providing air transport services, the pricing of air transport services, airline management and control and airport planning and management.

AVIA 211 Aviation Safety and Security (3)

Pre requisite: ENG 102

This course provides the basis for understanding safety and security concerns in the aviation industry.

AVIA 214 Principles of Accident Prevention and Causation (3)

This course builds on AVIA 211 and provides students with detailed case studies of various types of accidents in the aviation industry and how to prevent them.

AVIA 215 Introduction to Aviation Law & Policy(3)

Prerequisites: AVIA 111.

This course examines the legal foundations for regulatory policies of state and federal governments over the airline industry.

AVIA 218 Airport Planning and Design (3)

Prerequisites, AVIA 121

This course makes students to understand how airports are designed and planned. This course provides the basic understanding on issues relating to aircraft vehicle performance and airport interaction, and planning aspects of air transportation systems.

AVIA 226 Airport Administration and Finance (3)

Prerequisites: FIN 204, AVIA 111

This course examines the relevant aspects on organizational, political, and financial administration of public and private civil use airports. This course mainly focuses on public relations management, safety and security issues, employee organizational structures, financial and accounting strategies, revenue and expense sources, economic impacts of airport operations, airport performance measurement standards, and current trends and issues of direct concern to airport administrators.

AVIA 250 History of flight (3)

Prerequisites, AVIA 111

This courses traces the development of flying and reviews both the technological developments from a societal point of view and the global impact of man's quest for time in the air. It focuses on the people and the technologies which have developed the present global aviation system.

AVIA 305 Introduction to Meteorology (3)

Prerequisites, PHY 01

Weather plays a critical role in the health of the entire aviation industry. This course examines the various aspects of weather and the role in places in airline and airport management.

AVIA 308 Air Operations Management (3)

Prerequisites: AVIA 111, MAT 105.

This course introduces students to planning and control through the study of service industries and operations management with reference to aviation industry.

AVIA 309 Air Traffic Control (3)

Prerequisites: AVIA 215, MAT 100

An overview of Air Traffic Control responsibilities, communications, record keeping, regulations and handling of air traffic emergencies

AVIA 312 Human Resource Management in the Aviation Industry (3)

Prerequisites: MAN 210,

An introduction to the ideas and practices of human resource management including those that are unique to the aviation industry. The study focuses on the areas of organizational processes, planning, standards, motivation, and roles of suppliers and customer care

AVIA 318 Airports and the environment (3)

Prerequisite: AVIA 207

Airports have the environmental impact of self contained cities. The environmental impact is crucial especially in terms of the decision making process for building and expanding the. This course examines the numerous impacts that airports can have on the environment.

AVIA 320 Airport Marketing (3)

Prerequisite: AVIA111, MAR 206

An examination into principles of effective marketing of airports. Particular attention is paid to the e-commerce facets of airport marketing.

AVIA 325 Air Cargo (3)

Prerequisite: AVIA 207

This course examines the role of air cargo operations in the airline industry and studies the impact of this issue on the construction and development of facilities globally.

BNK - BANKING

BNK 130 Understanding Finance and Financial Statements (3)

Prerequisite: ACT 140; For Associate Degree Only.

The course introduces the student to the functions of Finance in an organization and to different types of financial statement analysis. The topics covered include an overview of financial statements, horizontal, vertical, comparative analysis, trend and ratio analysis.

BNK 201 Corporate Banking (3)

Prerequisites: MAT 30, ACT 145, ECON120 (concurrently), and a Minimum GPA of 2.0.

A common sense approach to understanding the lending environment within a bank. Topics include management issues and lending policies, the account officer's roles, skills, and abilities, the loan requests and the methods of analysis, loan structuring, pricing, documentation and administration, problem-loan causes, defenses, and resolutions, bank-asset portfolio construction, lending policies, liabilities management, bank capital structure, short-run cash management, financial market rates and flows, and quantitative models for bank management.

BIO - BIOLOGY

BIO 100 General Biology (3)

Prerequisite: Concurrent ENG 101.

Emphasis on fundamental principles of biology. Lecture course.

BUS – GENERAL BUSINESS ADMINISTRATION

BUS 101 Introduction to Business (3)

Prerequisites: Concurrent ENG 101, BUS 03, or passing Business Placement Test.

A survey of modern business and business practices. Gives the student a general knowledge of the modern business environment. Topics include principles of management, production, marketing, finance, and personnel; the operation of business in a free enterprise system; the governments' role in business; and forms of business ownership and organization.

BUS 156 Legal Environment of Business (3)

Prerequisites: ACT 140, and ECON 110.

An introduction to the nature and meaning of law, legal process and institutions. The legal environment is defined as: the attitude of the government towards business and the historical development of the attitude; current trends of public control in taxation, regulation of commerce, and competition; freedom of contract, antitrust legislation and its relationship to marketing, mergers and acquisition; and labor management relations.

BUS 195 Topics in Business (3)

Prerequisite: BUS 101.

Study of selected special problems in business and administration. May be repeated for credit with different topics.

BUS 205 Contemporary Business Communication (3)

Prerequisites: ENG 102 and a minimum GPA of 2.0.

A forum wherein business writing and speaking skills are addressed. Communication unique to business organizations is critiqued. Emphasis is placed on writing and verbal communication skills necessary to succeed in the business environment.

BUS 250 Business Statistics

(Previously offered as MAT 250)

Prerequisites: A minimum GPA of 2.0, Mat 100, MAT 105, and CPT 103.

Construction and use of statistical models for business management. Students will learn techniques used for relational analysis and business forecasting and how to apply them in a business context. Tools include CHI-Square tests of statistical independence; analysis of variance; simple linear regression and correlation; multiple linear regression; and extrapolative techniques such as moving averages and exponential smoothing. Emphasis is placed on problem definition, construction of statistical models, analysis of data, and interpretation of results. Computers are used for extensive analyses of case data.

BUS 390 Business Assessment Test (0)

Prerequisite: Concurrent Enrollment in BUS 391.

A onetime lab during which a major field exam in business is administered. Course granted on a satisfactory/unsatisfactory basis. Satisfactory grade required for graduation.

BUS 391 Strategic Management (3)

Prerequisites: Senior Level, FIN 204, FIN206, FIN 210.

This is a capstone course drawing on the subject matter covered in prerequisite courses. Emphasis is on the formulation and implementation of corporate, business and functional strategies designed to achieve organizational objectives. Topics include the role of top management, globalization of business and ethical perspectives. Case studies and research reports may be used extensively. (It is preferred that this course be taken during the student's final semester)

CHEM – CHEMISTRY

CHEM 10 Fundamentals of Chemistry (3)

Prerequisite: Concurrent ENG 101.

This course examines the role of Chemistry in everyday life and in the environment.

COM – COMMUNICATION

COM 30 Interpersonal Communication (3)

Prerequisite: ENG 101.

Development of basic one-to-one communication skills. Includes self-awareness, listening, nonverbal communication, feedback, role-playing, and receiver awareness.

COM 70 Introduction to the Cinema (3)

Prerequisite: Concurrent ENG 101.

COM 70 is an introduction to the "reading" and the comprehension of film as a language and to cinema as an institution. This course is a survey of the discipline of Film Studies, its methodologies, genres and histories. Through an examination of various cinematic forms, styles, and genres, roughly following a historical chronology, the course aims to develop the critical skills crucial to the discourse of Film Studies.

COM 40 Intercultural Communication (3)

Prerequisite: ENG 101.

This course studies a variety of cultures and their distinctive modes of communication. This course is designed to help foster awareness of the value of the fundamentals and value of cross cultural exchanges.

CPT – COMPUTER SCIENCE

COSC 0010 Fundamentals of Computing (0)

Prerequisite: Level 4.

The course introduces the basic concepts of data processing and explains computer based information systems in general. The course syllabus is divided into 8sections. The first section introduces Computer fundamentals which gives the basic awareness about a computer system. The second section explains the basic principles of operation of a personal computer system and file management. The third and fourth sections introduce Microsoft Word and Microsoft Excel which explain the documentation and spreadsheet manipulation. The last two sections give introductions to presentations and data base concepts using Microsoft PowerPoint and Microsoft Access respectively. This course also introduces fundamentals of computer networks and internet.

COSC 1300 Computer Application in Business (3)

Prerequisite: COSC 10

This course covers advanced topics in Spreadsheet, Web based tools, Relational database and Statistical Software. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of real life business applications

CPT 103 Computers and Information Systems (3)

Prerequisite: Freshmen status.

The basic concepts of data processing and the fundamental principles of computer-based information systems are studied. The characteristics of computer hardware and software used to implement business applications are considered. Students will develop skills in utilizing microcomputers. This course is recommended for Business and Economics students.

CPT 170 Programming with Visual Basic (3)

Prerequisite: COSC 10.

This course explores programming in Visual Basic for event-driven applications. Design and implementation of graphical user interfaces (GUI) are explored as primary examples. Additional topics may include DDE, OLE, and interactions with databases.

CPT 182 Programming in C (3)

Prerequisite: MATH 20 and COSC 10.

An overview of a computer system is presented. Structured design techniques are considered and applied to the development of computer programs. Aspects of a high level language such as C will be studied, including elementary and advanced data types and subprograms. Various features of the UNIX operating system will also be discussed.

CPT 201 Introduction to Java Programming (3)

Prerequisite: CPT 182/CPT 170.

This course introduces the Java programming language and its use in Internet programming. This will involve programming assignments in Java and their interface with browsers using applets. Students will also be exposed to the Java's windows toolkit – the AWT. A brief introduction to object-oriented programming concepts will be provided. Other topics will include threads, virtual machines, byte code, and the Java security model.

CPT 220 Data Structures and Problem Solving (3)

Prerequisite: CPT 182.

Advanced programming techniques including recursion, divide-and-conquer, and backtracking will be considered. A discussion of dynamic data structures such as lists, binary trees, stacks, queues, and priority queues will be presented. An introduction to modular programming, program specification and verification, and analysis of algorithms will be given. Other topics such as two dimensional arrays, Strings and various sorting and searching methods will also be considered.

CPT 240 Computer Systems I: Architecture and Organization (3)

Prerequisite: CPT 182.

Introduces details of computer systems from architectural and organizational points of view. Topics discussed may include data representation, digital logic and basic circuits such as ALU, multiplexers, decoders, flip-flops, registers, RAM and ROM memory, hierarchies, I/O devices, pipelining, parallel and RISC architectures, etc.

CPT 241 Computer Systems II: Programming (3)

Prerequisite: CPT 240.

Continues introduction of computer systems, with assembly programming and its application. Topics covered may include addressing modes, stack manipulations and applications for reentrant and recursive modules, memory interfacing, I/O device interfacing, and serial and parallel communication.

CPT 274 Object Oriented Programming with C++ (3)

Prerequisite: CPT 182.

Introduces object oriented concepts, terminology, and notation. The C++ language is explored including topics such as dynamic memory, exception handling, function and class templates, operator overloading, inheritance, polymorphism, and generic programming with the standard template library. Additional topics may include GUI libraries.

CPT 275 Advanced Programming Techniques (3)

Prerequisite: CPT 220 or ICT 130.

Exploring the UNIX/LINUX Operating System, including its tools and utilities for program development, such as make file, piping and redirection, shell scripts, regular expressions and symbolic debuggers. In addition, this course explores advanced features of C programming language, including various file processing, command line and variable arguments, exception handling and generic interfacing. This course explores the UNIX systems programming including the Process management, Thread management and Inter process communication via sockets.

CPT 278 Design and Analysis of Algorithms (3)

Prerequisites: CPT 220.

Addresses the design and mathematical analysis of fundamental algorithms in computer science. Algorithms studied may involve search, sorting, data compression, string manipulation, graph traversal and decomposition, and algebraic and numeric manipulation.

CPT 301 Web Programming Techniques (3)

Prerequisite: CPT 182.

Provides an introduction to Web page development using current techniques (HTML/XML). It also covers programming in Perl, CGI scripting, and Java script. The current Web servers are compared for issues such as comparison, capacity planning, and installation.

CPT 302 Java and Internet Programming (3)

Prerequisite: CPT 301.

A projects-oriented course using the Java programming language for Internet programming. The course focuses on current technologies in Java, including (AWI), threads, the Java security model, and Beans. Other topics may include sockets, IO Streams, Server-side Java, and Remote Method Invocation.

CPT 304 Electronic Commerce Protocols (3)

Prerequisites: CPT 275 and MAT 245.

Provides a technical introduction to electronic commerce over the Internet, examining topics such as electronic data interchange, digital currency, and electronic catalogs. The course discusses technical issues such as telecommunications infrastructure, data warehousing, software agents, and storage retrieval of multimedia information. Other topics may include cryptographic techniques as applicable to web-site development, management of data in a secure manner, authentication and confidentiality, different levels of security (transaction, network, and protocol), and digital signatures.

CPT 305 User Interface Development (3)

Prerequisite: CPT 275.

Focuses on user interface design standards as a programming problem. It covers topics such as functional vs. aesthetic concerns, elegance and simplicity, interference between competing elements, visual variables, perceptual organization for visual structure, grid-based design of module and program, semiotics with images and representation.

CPT 314 Theory of Computation (3)

Prerequisite: CPT 278.

Covers finite state machines and pushdown automata, and their relationship to regular and context-free languages. Also covers minimization of automata, Turing machines, and undecidability. Other topics may include Church's Thesis, uncomputability, computational complexity, propositional calculus and predicate calculus.

CPT 325 Programming Languages (3)

Prerequisite: CPT 274 or CPT 201.

A study of the principles of modern programming languages. The students perform a comparative study of syntax, semantics, and pragmatics of high-level programming languages. Also provides a discussion of list-processing, object-oriented, functional, procedural, or other programming paradigms.

CPT 328 Program Translation Techniques (3)
Prerequisites: CPT 240, CPT 220.
Looks at the theory of programming languages as well as the theory of program translation as a means for dealing with the conceptual gap introduced by the levels of abstraction. Program translation mechanisms are studies as a means to explore the trade-off between language expressiveness, translation, and execution effectiveness. Particular attention is paid to compilers, with emphasis on constraints induced by syntax and semantics.

CPT 330 Introduction to Artificial Intelligence (3)
Prerequisites: CPT 275 and CPT 278.
An overview of AI applications is presented. An AI programming language, such as Prolog or Lisp, is introduced. Fundamental AI problem solving techniques are applied to heuristic search and game playing. An introduction to knowledge representation and expert systems is given. Topics such as theorem proving, neural networks, and natural language processing may also be studied.

CPT 341 Computer Graphics (3)
Prerequisites: CPT 275 and CPT 278.
The basic architecture of various types of graphics systems is presented. Also presents a detailed description of the basic algorithms for 2-dimensional and 3-dimensional graphics systems. Algorithms for shading, hidden line removal, and rendering in the 3-D systems will be examined. The course involves significant project work.

CPT 350 Software Engineering (3)
Prerequisite: CPT 220.
Introduces software engineering as a discipline, discusses stages of software lifecycle, compares development models such as waterfall, prototyping and incremental/iterative, and compares structured and object-oriented methods. It also discusses software documentation, both internal and external verification/validation, quality assurance, testing methods, maintenance, project management and team structure, metrics, and available tools.

CPT 352 Object-Oriented Analysis and Design (3)
Prerequisite: CPT 275.
Concentrates on modeling using a visual language such as UML, in the context of a generic object-oriented development process. Discusses the object world, analysis/design goals as the driving development force, different system views, use cases, static and dynamic models, diagrams, modeling with patterns, and principles of responsibility assignments. The course may be supplemented with a CASE tool.

CPT 354 Software System Architectures (3)
Prerequisite: CPT 352.
Concerned with the design, modeling, and evaluation of complex software systems at the architectural level of abstraction. Covers basic principles of architectural system design, and may cover topics such as multi-tiered and packaged architectures, model-view and model-service separation, design supports for distributed and client-server applications, design patterns, package interfaces, notation, persistence, and GUI frameworks.

CPT 356 Software Development Processes (3)
Prerequisites: CPT 350 or CPT 352.
This course is an in-depth study of software development processes, in the context of an actual project. Discussion includes object-oriented processes such as Rational Unified Process, as well as process management issues such as scheduling, risk-assessment, various metrics, and the selection of appropriate development methodology and tools.

CPT 361 Database Management Systems (3)
Prerequisites: CPT 220.
Presents the foundations, concepts and principles of database design. Various models of data representation are considered, including the hierarchical and relational models. Also considers some of the implementation issues for database systems.

CPT 362 Information Retrieval (3)
Prerequisites: CPT 275 and CPT 278.
Presents deterministic models of information retrieval systems, including conventional Boolean, fuzzy set theory, p-norm, and vector space models. Other topics include probabilistic models, text analysis and automatic indexing, automatic query formulation, system-user adaptation and learning mechanisms, evaluation of retrieval, review of new theories and future directions, and intelligent information retrieval.

CPT 373 Computer Networks and Communications (3)
Prerequisites: CPT 220and MAT 132.
Communication systems will be considered in the context of the ISO standard for systems interconnection. Various types of networks will be studied including wide area networks, local area networks, and fiber optic networks.

CPT 374 Client-Server Architectures (3)
Prerequisites: CPT 275 and MAT 245.
Studies communications systems in the context of the ISO standard for systems interconnection. There is hands-on exposure to development of client-server applications.

CPT 376 Operating Systems (3)

Prerequisites: CPT 240.

Studies the structure of a generic operating system, considering in detail the algorithms for interprocess communication, process scheduling, resource management, memory management, file systems, and device management. Topics in security may also be examined. Examples from pertinent operating systems are presented throughout, and use of the algorithms in modern operating systems is examined. Substantial practical work, using the UNIX operating system is required.

CPT 381 Topics in Computer Science (3)

Prerequisite: Consent of the Instructor.

A course on selected topics in Computer Science to be determined by recent developments in the field and interest of the instructor. In general, the special topics will focus on issues related to advance undergraduate topics

CPT 390 Computer Science Project (3)

Prerequisites: Final semester before graduation.

A course to provide the student an opportunity to work on an advisor-supervised project.

ECON – ECONOMICS

ECON 110 Principles of Microeconomics (3)

Prerequisite: MAT 30.

Introduction to the determinants of household demand, production and cost, and market prices. Applies the principles of individual decision-making behavior to understanding goods, services, and resource markets.

ECON 120 Principles of Macroeconomics (3)

Prerequisite: ECON 110.

Introduction to the determination of levels of and changes in aggregate income, output, employment, and prices. Applies economic principles of choice to the formulation and achievement of public policies that affect national employment, income distribution, and economic growth.

ECON 200 Oman & AGCC Economies (3)

Prerequisite: ECON 120.

Economics 200 is a topics course which looks at significant aspects of the economy of Oman and other Gulf Cooperation Countries. Topics included are: The structure and historical development of GCC economies, labor market and human resource development, GCC economic integration - Custom & Monetary Unions, Economic trends & future outlook of Oman & GCC countries.

ECON 205 Economic Development (3)

Prerequisites: ECON 120.

The course examines the determinants of underdevelopment basis of economic development, strategies and policies, growth and development theories, and analyses policies and strategies to promote economic development. Emphasis will be given to the roles of market forces, state interventions, and the private sector. We will analyze the roles of human and capital resources, the specific contributions of different sectors of the economy to economic growth, the expected gains from international trade, the role of technological innovation, and the political economy of government behavior. Specific issues that will be addressed include stabilization and adjustment policies, import substitution and export-led industrialization strategies, the role of agriculture in economic development, and sustainability in the use of natural resources.

ECON 207 The Business Firm: History, Theory & Policy (3)

Prerequisite: ECON 120 or consent of instructor.

This course presents a history of the development of modern business firms and examines the evolution of the economic theory of the firm. Special attention is paid to the role that firms play in fostering social and economic development. The ultimate objective of the course will be to provide students with a deeper understanding of firms so they can make better policy decisions as firm owners, managers, lawmakers, regulators, and voters.

ECON 220 Money, Banking and Monetary Theory (3)

Prerequisite: ECON 120.

Factors influencing bank reserves and the money supply. Ability of the Federal Reserves (Central Bank) System and the Treasury (Ministry of Finance) to control these factors. Introduction to monetary theory; integration of monetary phenomena with national income theory. Analysis of current policy issues.

ECON 230 International Economics (3)

Prerequisites: ECON 120.

The course is intended to tackle different issues in international economics. Topics include world institutions, international trade institutions and system, markets under fixed and flexible exchange rate systems, and the balance of payments.

ECON 251 Intermediate Economic Theory: Microeconomics (3)

Prerequisites: ECON 120 and Junior Level.

Analysis of prices in terms of equilibrium of the business firm and consumer demand in markets of varying degrees of competition.

ECON 252 Intermediate Economic Theory: Macroeconomics (3)

Prerequisites: ECON 120, ECON 220, and Junior Level.

Study of national income, expenditure and the forces determining the level of economic activity. Special emphasis on the theory of income determination and its application to public policy.

ECON 265 Economic Statistics (3)

Prerequisites: MAT 30, ECON 110, ECON 120, and Junior Level.

An introduction to economic data sources, data interpretation and statistical inference as used in economic analysis. Emphasizes the testing of economic hypotheses and the development and estimation of economic models. Introduces the use of statistical software used in economics.

ECON 350 Mathematical Economics (3)

Prerequisites: ECON 265 and ECON 120.

This course uses calculus and other mathematical tools to analyze economic phenomena. In addition to exploring techniques used to solve unconstrained and constrained optimization problems, the course also examines how matrix algebra is used in economic modeling. This course allows students to mathematically analyze economic models which receive graphical treatment in lower level courses.

ECON 360 Natural Resource Economics (3)

Prerequisites: ECON 120 and ECON 200.

The objective of this course is for students to learn how basic economic theory can be used to understand and analyze environmental and resource utilization. The assigned readings will familiarize students with key concepts in economic theory. Class activities and assignments will primarily focus on how these concepts can be used to analyze and understand "real world" environmental and natural resource issues... Issues concerning the optimal and sustainable use of natural resources are examined in this context. Some emphasis is given to potential policy responses to environmental problems. Special analysis will be given to Oman AGCC oil and natural gas resources.

ECON 395 Special Readings in Economics (3)

Prerequisites: 4th year Level.

Unscheduled, independent directed intensive readings on topics mutually acceptable to student and instructor. It is composed of oral and written work in one area. This subject is mainly opened to students interested in advanced work in economics after graduation.

ECON 396 Senior Project (3)

Prerequisites: 4th year Level.

The course serves as a capstone for the BA program and also provides a product for assessment purposes. It is an independent research project intended to integrate knowledge from previous theories and practice courses into a coherent whole. The course is also designed to prepare students for professional or graduate work in the field. Students are required to write on a realistic economic problem beginning with the problem statement, through proposal, documentation and presentation/delivery. Students assume specific roles in order to complete the necessary tasks. They are expected to exhibit individual responsibility and maturity, and be willing to devote the necessary level of effort to complete their project on time. A faculty project Advisor provides general supervision and guidance during the semester, but students are fully responsible for their own success. Students will select a project topic and give a written and oral report. The topic/policy issues chosen should be chosen from a list of topics of Omani nature. The size should be a minimum of 5000 words.

ENG - ENGLISH

Composition/Communication

ENG 101 English Composition I (3)

Prerequisites: Advanced ESL or Passing of the English Placement Test.

An academic writing course focusing on the fundamental components of good academic writing, this course reinforces a student's writing skills through practice in writing and editing. The student analyzes and synthesizes ideas and expresses them in essay form. Emphasis is placed on argument through achieving clarity of expression, support of thesis, and effectiveness of organization. Students practice these skills in response to personal experience and discussion, assigned readings, and research.

ENG 102 English Composition II (3)

Prerequisite: ENG 101.

Emphasis is on writing for academic purposes including the research paper. Techniques of research and drawing information from sources will be included in writing samples. Critical thinking skills and logic form an integral part of the course. Students will seek to refine their research and creative writing skills by having access to the library and the internet. Students will develop the confidence to communicate effectively through writing. Moreover, this course will allow for much independence and responsibility on the part of the individual student. Students must receive a minimum grade of C-in ENG 101 to register for this course.

ENG 105 Introduction to Public Speaking (3)

Prerequisite: ENG 101.

This course seeks to introduce students to public speaking through a discussion of Theory and Application of communication theories to a number of various speaking situations (mainly persuasive and informative). Students are required to research and present at least 5 speeches. At the end of this class, they are supposed to have developed self confidence and boldness in presenting speeches in their personal and professional life. They are also expected to b able to present a well-reasoned, well-presented speech appropriate to the situation in which it is presented.

ENG 17 American Literary Masterpieces (3)

Prerequisite: ENG 102.

An introduction to major themes and works in American literature from the nineteenth century to the present. This course will include selected themes such as the frontier, race and racism, wealth and poverty, etc. It will also include a selection of major writers such as Whitman, O'Neill, Faulkner, Ellison and Morrison.

ENG 112 Topics in Writing (3)

Prerequisite: ENG 102 and Sophomore Level. .

"Topics in Writing" is a one-semester course designed for the upper level undergraduate students. It should be sufficient to provide the necessary writing and research tools needed in preparing a research paper. Students taking this course have to meet two hours per week. This course offers the students fundamental training in the techniques in research conducting and writing. Oral and written communication skills will be introduced, with more emphasis on the writing skill. Special emphasis is given to the procedures employed in writing an objective, well-organized research paper, and the methods of research.

ENG 132 English Literature (3)

Prerequisite: ENG 102

A survey of English Literature during the nineteenth and twentieth centuries. The course features the reading and analysis of representative works of selected major writers.

ENG 140 World Literature

Prerequisite: ENG 101

This introductory course to World Literature refers to literature in English from different parts of the world. It considers a selection of literary texts belonging to different literary genres and periods. This course also aims at introducing basic literary concepts and major literary theories and approaches from different literary schools.

ENGL 2320 Contemporary World Literature (3)

Prerequisite: ENG 101.

This introductory course to Contemporary World Literature refers to 20th century literature in English from different parts of the world. It considers a selection of literary texts belonging to different literary genres (essay, fiction, poetry, drama) through various themes (e.g. self, gender, culture). This course also aims at introducing basic literary concepts, and major literary theories and approaches. Literary texts and topics vary from semester to semester.

ENG 212 Business Writing (3)

Prerequisites: ENG 102 and Sophomore Level.

This course further develops the experienced writer's style and analytical capabilities to the level of sophistication necessary for upper-division writing assignments and for business and professional settings. Writing assignments

may include business correspondence, reports, resumes, proposals, analyses, feasibility studies, and articles for in-house publications. The course emphasizes clarity, conciseness, organization, format, style, tone and mechanical correctness; expands upon student's research and documentation skills; and requires research in university library. . Students will also develop strategies for using and adapting various communication technologies to manage projects and produce informative professional documents. Finally, they will understand and implement various principles of format, layout, and design of professional documents that meet multiple needs. The polished written output for the class will be gathered in a "portfolio" at the end of the semester.

ENG 213 Technical Writing (3)

Prerequisite: ENG102 and Sophomore Level.

Technical writing requires the ability to communicate complex technical material in a clear fashion, to write documents that persuade and argue effectively, and to communicate to different audiences. Students will also learn to organize their thoughts and develop them logically, to build evidence and make a persuasive argument, to write clearly and concisely, and to self-edit. Students submit frequent writing assignments, act as peer editors, participate in class discussions, and read and analyze class texts. In this course, students will acquire the skills for writing and revising technical documents in terms of audience, purpose and organization. Includes a section on research methodology.

ENG 280 Topics in Arab Literature (3)

Prerequisite: ENG 101. and Sophomore Level.

This course examines topics in Arab literary works belonging to different genres (Essay, fiction, poetry, and drama). It introduces basic literary concepts, and considers major themes in Arab literature (such as tradition and modernity; East and West, male and female writing; feminist reading). Literary texts and topics vary from semester to semester.

ESL – ENGLISH AS A SECOND LANGUAGE

English as a Second Language (ESL) comprises of Beginners to Advanced Levels (Levels 1 to 4) with the following four distinctive components of the language skills:

ENGL 0011, 0021, 0031 & 0041
Speaking, Listening and Note-taking

To develop fluency and correctness in speaking English; to increase conversational vocabulary; to understand, practice, and adapt features of pronunciation by listening to recorded material; to increase conversational listening skills and to organize and present short lectures.

To increase skills in listening; to recognize organizational clues; to develop vocabulary and comprehension strategies; to distinguish between important points and details; to take effective class notes should be taken as early as possible in order to get the most benefit from your other credit courses.

ENGL 0012, 0022, 0032 & 0042
Reading and Writing

To develop writing skills including essay development, organization, vocabulary, and editing for grammar, punctuation and structure; to develop reading skills and strategies.

ENGL 0013, 0023, 0033 & 0043
Grammar

To review grammar rules, to understand the meaning and use of these structures in American English; to recognize and use these structures correctly in speaking and writing.

FIN – FINANCE

FIN 204 Financial Management (3)

Prerequisites: ECON 120, ACT 145, MAT 105, and a minimum 2.0 GPA.

The first course in finance. The study of a firm's need for funds; the institutions, instruments, and markets concerned with raising funds; and the techniques of analysis used to determine how effectively these funds, once raised are invested within the firm. The basics of financial analysis, forecasting, operating and financial leverage; working capital, current asset management short term financing; time-value concepts and practices; and cost of capital equity financing, dividend policy.

FIN 334 Investments (3)

Prerequisites: FIN 204, a minimum 2.0 GPA, and Junior Level.

Financial analysis of debt and equity instruments available on organized exchanges and in less tangible over-the-counter markets. Techniques of such analysis are presented in context with economic and management circumstances

within the company, industry, and economy and portfolio management.

FIN 337 Principles of Real Estate (3)

Prerequisites: FIN 204, a minimum 2.0 GPA, and Junior Level.

As an introduction to the real estate industry, the course broadly explores all phases of acquisitions, development and disposal of real property. Topics include legal requirements of contracts, property rights, valuation and appraisal techniques, marketing, brokerage operations and practices, mortgage financing, leasing and property management.

FIN 350 Financial Policies (3)

Prerequisites: FIN 204, a minimum 2.0 GPA, and Junior Level.

The intensification and application of the concepts developed in 204. Special emphasis is given to the development of top management policies and their application toward complex problems of finance. Techniques for identifying and dealing with these problems before they become acute will be investigated. Cases will be integrated with appropriate outside reading.

FIN 356 Commercial Bank Management (3)

Prerequisites: ECON 120, FIN 204, a minimum 2.0 GPA, and Junior Level.

Corporate finance and microeconomics are applied to matters of importance to commercial bankers. Among the subjects treated are bank asset portfolio construction, lending policies, liabilities management, bank capital structure, short-run cash management, financial market rates and flows, and quantitative models for bank management. Commercial bank management is analyzed from an internal view point in terms of what bank managers should look for in asset management and why; what market conditions they should be aware of; and what techniques they can use to meet changing economic and financial conditions.

FIN 380 International Finance (3)

Prerequisites: Econ 120, FIN 204 a minimum 2.0 GPA, and Senior Level.

A study of the international financial markets, instruments, and portfolio strategies. Topics will include international risks, foreign diversification and heading techniques for international risks, foreign diversification and hedging techniques for international exposure. The use of derivative instruments and special markets are evaluated in the international corporate/investment settings.

GEDU-HEALTH

GEDU 132 Personal Health (3)

Prerequisite: Concurrent ENG 101.

This course is a study of factors that contribute to the physical and mental well being of individuals at all stages in their lives. Particular attention will be given to threats to well being within the society of Oman and preventative measures that can be adopted.

HIST – HISTORY

HIST 03 American Civilization I (3)

Prerequisite: ENG 101.

Evolution of the cultural tradition of the Americas from the earliest times to the mid-nineteenth century, with emphasis on the relationship of ideas and institutions to the historical background.

HIST 04 American Civilization II **(3)**

Prerequisite: ENG 101.

Evolution of the cultural tradition of the Americas from post civil war to the present, with emphasis on the relationship of ideas and institutions to the historical background.

HIST 05 European Civilization I (3)

Prerequisite: ENG 101.

The evolution and growth of Europe from the fall of the Roman Empire to 1500. The course discusses the evolution of institutions, ideas and the formation of European culture.

HIST 06 European Civilization II (3)

Prerequisite: ENG 101.

The evolution and growth of Europe from 1500 to the present. The course discusses the evolution of institutions, ideas and the formation of European culture.

HIST 07 World Civilization I

Prerequisite: ENG101.

This course studies the development of major civilizations of the world from the inception of human history to approximately 1600.

HIST 08 World Civilization II

Prerequisite: ENG101.

This course studies the development of major civilizations of the world from the early modern era, approximately 1600, to the present.

HIST 104 Topics in American Civilization

Prerequisite: ENG 101.

This course studies topics in the civilization of the United States from the civil war to the present. Themes to be covered include the "Frontier" and the "American dream"; USA becoming a super power; racism and civil rights movement; sex discrimination and feminism. A comparative approach with other cultures is adopted throughout this course.

HIST 200 Topics on Contemporary World Civilization

Prerequisite: ENG 101.

This course studies a range of global concerns, from industrialization to globalization, including social movements and rise of feminism, impact of imperialism and international conflicts, cultural and intellectual trends.

IDS – INTERDISCIPLINARY

IDS 220 Contemporary American Culture (3)

Prerequisite: ENG 102.

This course is an interdisciplinary course. It focuses on contemporary American culture that is roughly American culture from 1930 to the present, and helps students to understand contemporary American culture through a study of its literary, artistic, and social expressions.

ICT – INFORMATION COMMUNICATION TECHNOLOGY

ICT 101 Fundamentals of Information Technology (3)

Prerequisite: COSC 10.

This course introduces students to the academic discipline of IT, its principles, and its practices, the impact of information technology on individuals and the society, Relationship of IT to other computing disciplines. It discusses the principles behind spreadsheets, word processing, and web browser technology. The Students will be proficient in their use through laboratory based work. General principles of the computer, support devices, single and multi-user operating systems, networks, client-server systems and the rapidly emerging role of the World Wide Web are also discussed in this course.

ICT 125 Computer Architecture and Organization (3)

Prerequisite: ICT 101.

Introduces details of computer systems from architectural and organization points of view. Topics discussed may include data representation, digital logic an basic circuits such as ALU, multiplexes, decoders, flip – flops, registers, RAM and ROM memory, memory hierarchies, I/O devices, pipelining, parallel and RISC architectures, Digital logic and systems, File structures etc.

ICT 128 Web Application Techniques (3)

Prerequisite: ICT 101.

The course introduces the knowledge required for representing information in the World Wide Web for automation, integration, and reuse across web applications. The techniques that can integrate stand-alone applications with the web features are also discussed. Topics include Client-Server environment, Internet Service Providers, HTML Standards, Webpage Basics, Scripting, User Interaction, Webpage Design tools, Website Maintenance issues, and Web portals.

ICT 130 Introduction to Operating System (3)

Prerequisites: ICT 125.

An introduction to major operating systems and their components; Topics include processes, concurrency and synchronization, deadlock, processor allocation, memory management, I/O devices and file management, and distributed processing. Techniques in operating system design, implementation, and evaluation.

ICT 145 Internship (3)

Prerequisite: Sophomore Level.

Working in collaboration with the industry. The purpose of this course is to provide students with a structured and supervised work experience in an approved agency that integrates academic enquiry into a professional work experience.

ICT 205 Software Engineering (3)

Prerequisite: ICT 130/CPT 182.

This subject introduces the fundamental concepts underlying the design and implementation of large software projects. The student will gain an awareness of theoretical considerations underpinning software engineering and skills in using the practical techniques embodying them. An awareness of and skills in applying practical project management techniques in a team will also be gained.

ICT 210 Introduction to E-Commerce

Prerequisite: CPT 201 and ICT 130.

Examines the impact of emerging technologies on how we conduct business in a wired world. Topics include: ingredients for a Commerce Enabled Web site from hardware and software to necessary operational processes; copyright, authentication, encryption, certification, and security; on-line payment strategies (SET, E-cash, check, and charge) and companies offering solutions: E-Commerce Business Models.

ICT 220 Database Management Systems (3)

Prerequisites: CPT 182/ICT 130.

This course surveys topics in database management systems. Topics include access methods, data models (network, hierarchical, relational, semantic, and object-oriented), query languages, database design, query optimization, concurrency control, recovery, security, integrity, client-server architecture, and distributed database systems. A database application project will be assigned. Advanced topics in database systems, including distributed database systems, query optimization, concurrency control, knowledge bases, deductive database systems, and object-oriented database systems. Additional topics may include benchmarking, scientific databases, and parallelism. Software engineering principles will be applied to the development of components of a database management system.

ICT 225 Data Communication & Networks (3)

Prerequisite: ICT 125.

This course introduces the fundamental concepts and terminology of data communication and networking. Topics will include: fundamentals of telecommunications, data transmission mechanisms, telecommunication media and technologies, considerations for LAN and WAN implementations, the Internet protocols, emerging telecommunications technologies, and trends in the telecommunications industry

ICT 230 Advanced JAVA Programming (3)

Prerequisite: CPT 201.

The goal of this course is to design and develop an Internet based "e-commerce" web site using UML, Java Servlets, Java Server Pages, and JDBC. The course will begin by introducing database access using JDBC. After a basic introduction to JDBC the student will learn how to create dynamic web pages using Java Servlets and Java Server Pages. Once the basics have been covered, each student will participate in the design by reviewing use cases, activity diagrams, and class diagrams using UML. Once the design has been completed each student will implement the required data model, HTML pages, Java Servlets, and Java Server Pages. The course will finish with an evaluation of the design by examining what would be required to replace the current web based interface with a Swing interface.

ICT 250 Project I (3)

Prerequisite: ICT 205 / ICT 220 and at least 40 credits.

The knowledge gained from the various courses in Information Communication Technology and other related areas will be used with a live project. Working in small groups or individually, students will design and develop a real life information system.

ICT 340 Wireless and Mobile Communications (3)

The course provides an overview of the latest developments and trends in wireless mobile communications, and addresses the impact of wireless transmission and user mobility on the design and management of wireless mobile systems.

ICT 361 Network security (3)

The course covers theory and practice of computer security, focusing in particular on the security aspects of the web and Internet. It surveys cryptographic tools used to provide security. It then reviews how these tools are utilized in the internet protocols and applications.. System security issues, such as viruses, intrusion, and firewalls, will also be covered.

ICT 371 Network Management (3)

Computer network management concepts, protocols, and industry standards. SNMP, CMIP, and web management. Management applications including fault, performance, configuration, accounting, and security management. Management tools and network modeling.

LOM – LOGISTICS AND OPERATIONS MANAGEMENT

LOM 252 Introduction to Operations Management

Prerequisites: A minimum GPA of 2.0, ECON 110, BUS 250, and ACT 145.

The first course in logistics and operations management that examines the concepts, processes, and institutions which are fundamental to an understanding of manufacturing and service operations within organizations. Emphasis is on the management and organization of operations and upon the application of quantitative methods to the solution of strategic, tactical and operational problems.

MAN – MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR

MAN 200 Industrial Management (3)

Prerequisites: BUS 101, a minimum, 2.0 GPA, and Sophomore Level.

The course provides students with a conceptual framework for understanding the basic management decisions with respect to production/operations management functions in industrial and service organizations. The course focuses attention on the concepts and techniques for carefully managing the processes to produce products and services and emphasizes efficiency and effective of process. The areas of emphasis include types of manufacturing systems, concepts in production planning and control, facilities planning, materials management and inventory control, maintenance management, industrial safety and quality management. The course methodology shall involve lectures, case studies and practical assignments.

MAN 210 Management and Organizational Behavior (3)

Prerequisites: BUS 101 and Sophomore Level.

The first course in Management for bachelor degree students, in which the behavior of individuals and groups in an organizational setting is studied. Specific topics examined include: leadership, organizational design, and conflict resolution, as well as a basic coverage of management principles. In covering these topics, both classic and current perspectives are provided.

MAN 230 Professional Skills Development (3)

Prerequisites: BUS 101, a minimum 2.0 GPA, and Sophomore Level.

This course focuses on career management. Topics include job search, interviews, resumes and cover letters, presentation skills, business etiquette, entry strategies, and career alternatives.

MAN 309 Human Resource Management (3)

Prerequisites: MAT 105, MAN 210, a minimum 2.0 GPA, and Junior Level.

In depth examination of selected human resource management issues from a contemporary managers viewpoint. Topics examined include: employee selection, performance appraisal, training and development, compensation, legal issues, and labor relations.

MAN 311 Advanced Management and Organizational Behavior (3)

Prerequisites: MAN 210, a minimum 2.0 GPA, and Junior Level.

Building upon 210, this course provides a more detailed examination of motivation, leadership, group process, decision - making, job design, and organizational development. In additional to providing more detail in terms of content, this course provides the student with considerable practical experience through the use of class exercises, case studies, and small group discussions.

MAN 317 International Management (3)

Prerequisites: A minimum 2.0 GPA, ECON 120, and MAN 210.

A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

MAN 319 Employee Training & Development (3)

Prerequisites: A minimum 2.00 GPA, MAN 309, and Senior Level.

An intensive study of training of organizations, including needs analysis, learning theory, management development, and development training objectives and programs. Projects and exercises are used to supplement the readings.

MAN 392 Entrepreneurship/ Small Business Management (3)

Prerequisites: BUS 156, FIN 204, MAR 206, MAN 210, a minimum 2.0 GPA, and Junior Level.

This integrative general management course is designed to communicate the academic principles of business management applicable to solving of problems of small – and medium – size business and assist in their development. This course will provide a background in the forms of business, the development of business plans and system integration, venture capital, accounting, procurement, promotion, financing, distribution and negotiations for initial organization, and operation and expansion of the firm.

MAR – MARKETING

MAR 115 Direct Marketing Methods (3)

For Associate Degree Only.

Prerequisite: BUS 101.

A practical presentation of direct marketing methods and techniques covering telemarketing, direct mail, television, newspapers and magazines. Topics presented include creating and producing direct marketing messages, media analysis and selection, and operational management. Intended as practical, a hands – on experience for business managers/marketers and as a skill developer for the direct marketing professional. Includes a section on marketing using the internet.

MAR 203 Business to Business Marketing (3)

For Associate Degree Only.

Prerequisites: ECON 110 and MAR 115.

The course is aimed to give an understanding about the concepts and importance of business marketing. It focuses on how business marketing is different from consumer marketing.-Business marketing process, its essential functions and the institutions performing them. Attention is focused on the major policies such as product, pricing, promotion and distribution, which underline the multifarious activities of marketing institutions and managerial, economic, and societal implications of such policies. It also provides means to evaluate the firm's capabilities develop marketing strategies and introduce marketing techniques to meet the firm's objectives.

MAR 206 Basic Marketing (3)

Prerequisites: ECON 110, 2.0 GPA.

The first course in marketing that examines the character and importance of the marketing process, its essential functions and the institutions performing them. Attention is focused on the major policies (such as distribution, product, price, and promotion) which underlie the multifarious activities of marketing institutions and managerial, economic, and societal implications of such policies. Presents the psychological and societal motivations that translate need through demand to satisfaction. Provide means to evaluate the firm's capabilities develop marketing strategies and introduce marketing techniques to meet objectives.

MAR 222 Sales Management (3)

Prerequisites: ECON 110 and BUS 101.

The course is aimed to provide a detailed understanding of how personal selling is critical to the success of marketing. The course will provide critical thinking skills as well as practical knowledge and skills needed in personal selling in competitive market place. It is also aimed to give a clear idea as to the recruitment, selection, and training of sales persons and their compensation plans .A detailed idea is also given regarding the sales control techniques.

MAR 270 Management of Promotion (3)

Prerequisites: MAR 206, a minimum 2.0 GPA, and Junior Level.

A study of the design, organization, and implementation of the marketing communications mix. Various methods, such as advertising, personal selling, and publicity are analyzed as alternatives for use alone, or in combination, to stimulate demand, reseller support, and buyer preference. Particular topics considered include: media selection, sales promotional, packaging, and selling strategy, and their relationships in the promotion process.

MAR 275 Marketing Research (3)

Prerequisites: CPT 103, MAR 20, BUS 250, a minimum 2.0 GPA, and Senior Level.

An investigation of the acquisition, presentation, and application of marketing information for management. Particular problems considered are defining information requirements, evaluating research findings, and utilizing information. Statistical methods, models, and/or cases are employed to illustrate problems, such as sales forecasts, market delineation, buyer motives, store location, and performance of marketing functions.

MAR 301 Consumer Behavior (3)

Prerequisites: MAR 206, a minimum 2.0 GPA, and Junior Level.

A study of such consumer functions as decision making, attitude formation and change, cognition, perception, and learning. The marketing concepts of product positioning, segmentation, brand loyalty, shopping preference and diffusion of innovations are considered in context with the environmental, ethical, multicultural and social influences on an increasingly diverse American consumer.

MAR 315 Marketing Management (3)

Prerequisites: MAR 206, a minimum 2.0 GPA, and Senior Level.

An intensive analysis of major marketing decisions facing the firm, such as levels, mix, allocation, and strategy of marketing efforts. Specific decision areas investigated include market determination, pricing physical distribution, product policy, promotion, channel management, and buyer behavior. Competitive, political, legal, and social factors that may affect such areas of decision are discussed. Cases, models, and problems are used heavily.

MAR 316 International Marketing (3)

Prerequisites: MAR 206, a minimum 2.0 GPA, and Senior Level

Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a countries cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, economic and social development, the spread of multinational corporations, business ethics, and current economic and marketing issues are examined.

MAT – MATHEMATICS

MATH 0010 Basic Mathematics (0)

Prerequisite: Concurrent with Level 03.

Basic Mathematics course is designed to ensure the general mathematical skills of students entering to University programs. This course is assessed for arithmetic, basic trigonometry, understanding of co ordinate systems, elementary handling methods of mathematical calculations without the use of calculators and the handling of algebraic expressions.

MATH 0020 Applied Mathematics (0)

Prerequisite: Pass in Placement Test I or Basic Mathematics.

Applied Mathematics is focused for students entering to higher education in Business, Education, Linguistic, Social sciences etc. The topics covered in Applied Mathematics are Basic Algebra, commercial Mathematics and some important concepts of related probability and Statistics. This course also includes the real life and business related application problems.

MATH 0021 Pure Mathematics (0)

Prerequisite: Pass in Placement Test level I or Basic Mathematics.

Pure Mathematics is designed to cater the need of students entering to Engineering, Sciences, Health Sciences etc. The topics covered are Basic Algebra, basic Trigonometric concepts, related application problems and related probability and Statistics. This course enables the students to enhance their skills in utilizing abstract mathematics in problem solving techniques.

MAT 30 College Algebra (3)

Prerequisites: MAT 03 or a satisfactory score on the College's mathematics placement examination.

Topics in algebra and probability, polynomial functions, the binomial theorem, logarithms, exponentials, and solutions to systems of equations.

MAT 35 Trigonometry (2)

*Prerequisite: MATH 20*A study of the trigonometric and inverse trigonometric functions with emphasis on trigonometric identities and equations.

MAT 80 Analytic Geometry and Calculus I (5)

Prerequisites: MATH 21.

Introduction to analytic geometry, differential calculus, and integral calculus. MAT 80, 175, and 180 form the calculus

MAT 90 Calculus Concepts (3)

Prerequisite: MATH 20.

A study of the basic techniques of differential and integral calculus and their applications to real world situations. Introduce the basic concepts and techniques of linear algebra and simple differential equations which are appropriate to science and technology.

MAT 100 Basic Calculus (3)

Prerequisite: MAT 30/MATH 20.

Introduction to plane analytic geometry and basic differential and integral calculus with application to various areas. No credit for Mathematics majors. Credit not granted for both MAT 80 and 100.

MAT 105 Basic Probability and Statistics (3)

Prerequisite: MAT 30/MATH 20.

An introduction to probability and statistics. Topics include the concept of probability and its properties, descriptive statistics, discrete and continuous random variables, expected value, distribution functions, the central limit theorem, random sampling and sampling distributions. Credit not granted for more than one of MAT 132 and MAT 105.

MAT 132 Applied Statistics I (3)

Prerequisite: MAT 30/MATH 21.

This course introduces students to some basic statistical concepts and reinforces some of the methods learned in previous math courses. The course will provide the students with the basic Knowledge of Probability and statistic to help them in research. An introduction to the basic ideas and tools of statistics. Introductory data analysis, statistics modeling, probability and statistics inference

MAT 175 Analytic Geometry and Calculus II (5)

Prerequisite: MAT 80.

A second course in a sequence of courses including Analytical geometry, Differential calculus and Integral Calculus. This series is recommended for majors in

engineering, the physical sciences and mathematics. Topics include the following: The derivatives and anti-derivatives of exponential, logarithmic and transcendental functions, technique of integration, further application of integrals, parametric equations and polar coordinates and sequence and series.

MAT 180 Analytic Geometry and Calculus III (5)
Prerequisite: MAT 175.
This is an advanced course and the third course in the series of courses on analytical geometry and calculus. The topics include solid analytic geometry, three dimensional vector space, functions of two or more variables, partial derivatives, multiple integrals, their applications and vector fields

MAT 202 Introduction to Differential Equations (3)
Prerequisite: MAT 180.
Topics will be chosen from linear differential equations, equations with constant coefficients, Laplace transforms, power series solutions, systems of ordinary differential equations.

MAT 245 Elementary Linear Algebra (3)
Prerequisite: MAT 175 or MAT 100.
An introduction to linear algebra. Topics will include complex numbers, geometric vectors in two and three dimensions and their linear transformations, the algebra of matrices, determinants, solutions of systems of equations, eigenvalues and eigenvectors.

MAT 255 Discrete Structures (3)
Prerequisite: MAT 175 or 100, and CPT 182. (Same as CPT 255)
Treats fundamental ideas in discrete structures and serves as a foundation for subsequent course in both Mathematics and Computer Science. Provides an introduction to techniques of mathematical reasoning with examples derived from computer science. Topics include logic, set algebra, equivalence relations and partitions, functions, mathematical induction, elementary number theory, cardinality, recurrence relations, basic combinatorial methods, trees and graphs. Credit not granted for more than one of CPT 255, MAT 250, and MAT 255.

MAT 323 Numerical Analysis I (3)
Prerequisites: MAT 202, 245, and ability to program in an upper-level language.
Solutions of equations, interpolation and approximation, numerical differentiation and integration, and numerical solution of initial value problems in ordinary differential equations. Selected algorithms will be programmed for solution on computers.

MAT 324 Numerical Analysis II (3)
Prerequisite: MAT 323 or consent of instructor.
Topics chosen from: the numerical solution of systems of linear equations; the eigenvalue/eigenvector problem; numerical solution of Partial Differential Equations (PDE); numerical solution of stiff Ordinary Differential Equations (ODE); boundary value problems; sparse matrix methods; approximation theory; optimization theory; digital filters; integral equations.

MAT 355 Combinatorics (3)
Prerequisites: CPT/MAT 255 and MAT 180.
Advanced counting methods are introduced, including the use of generating functions for the solution of recurrences and difference equations. Additional topics may include: graphs and trees, combinatorial designs, combinatorial games, error-correcting codes, and finite-state machines.

MATH 2311 Calculus III (3)
Pre requisites: MAT 175
The calculus of vector-valued functions is introduced. Partial differentiation and multiple integration are studied along with curves and surfaces in three dimensions.

MIS – MANAGEMENT INFORMATION SYSTEMS

MIS 110 Introduction to Management Information Systems (3)
Prerequisite: ENG 101.
This course is concerned with the role of information systems in managing organizations to make them more competitive and efficient. Specific topics include organizational and technical foundation of information systems and building and managing information systems.

MIS 212 Database Management System (3)
Prerequisites: MIS 224 and a minimum GPA of 2.0.
This course provides an introduction to the design and use of database in meeting business information needs. Topics include database planning, conceptual design, and data administration. The concepts are studied with projects involving the use of current database management system.

MIS 215 Information System Analysis (3)
Prerequisites: MIS 224, and a minimum GPA of 2.0.
Techniques and philosophies of system analysis are addressed. Include are: traditional versus structured design methods, computer-based tools for systems analysis,

workbenches, design analysis of database systems, maintenance of existing information system, human/machine interfaces, and security and control.

MIS 224 Managerial Applications of Object-Oriented Programming I (3)

Prerequisites: (CPT 103 or Computer Science 122 or 125) and a 2.0 GPA.

The course provides a study of the UNIX operating system and the C++ programming language as they pertain to managerial applications. In addition, the course will introduce the use of object-oriented programming methodologies.

MIS 225 Managerial Applications of Object –Oriented Programming II (3)

Prerequisites: MIS 224 and a minimum GPA of 2.0.

This course expands object-oriented skills taught in 224. The emphasis in this course is on object-oriented development tools and development in a client server environment. The data management tools will include the use of SQL to access server-based databases.

MIS 280 Electronic Business Strategy (3)

Pre requisites: ICT 128

The course focuses on the linkage between organizational strategy and networked information technologies to implement a rich variety of business models in the national and global contexts connecting individuals, businesses, governments, and other organizations to each other. The course provides an introduction to e-business strategy and the development and architecture of e-business solutions and their components.

MIS 285 Project Management & Practice (3)

Pre requisites: MIS 215/ICT 205

This course covers the principles upon which project management methods are based and it discuss how to *manage* IS projects from inception to post implementation review. Topics include software and system acquisition standards, factors that affect cost, cost estimation, cost/benefit analysis, risk analysis and legal implications with respect to ownership and use.

MIS 304 The Management of Information System (3)

Prerequisites: MIS 224 and minimum GPA of 2.0.

Aspects and methods for managing the computer and information resources of organizations. Topics include aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of MIS to senior management, software acquisition, software metrics, project management, security issues, and security auditing etc as they relate to information resources.

MIS 309 Information Technology Hardware and System Software (3)

Pre requisites: ICT 125

This course provides the hardware/software technology background to enable systems development personnel to understand tradeoffs in computer architecture for effective use in a business environment. It explains system architecture for single user, central, and networked computing systems; and single and multi-user operating systems will be covered. Focused mainly on hardware & software installation, configuration and trouble shooting

MIS 310 Information System Design (3)

Prerequisites: MIS 212, MIS 215, MIS 225 and, a minimum GPA of 2.0.

System Design, implementation, and methods of systems installation and operation are presented. A system development project is required.

MIS 319 Topics in Information Systems (3)

Prerequisite: Consent of the Instructor.

A course on selected topics in Information Systems to be determined by recent developments in the field and interest of the instructor. In general, the special topics will focus on issues related to advance undergraduate topics

MIS 320 Information System Project (3)

Prerequisites: Final semester before graduation.

The IS project course provides students an exciting opportunity to apply the knowledge & skills acquired through various courses to a real world context. In doing so, the students gain an exposure to the challenges of team building, resource development, and client relations. They also learn to work under time and deliverable constraints, and understand that limited information and pressing deadlines are as real and important as the technical and managerial components of any task .

PHIL – PHILOSOPHY

PHIL 101 Introduction to Philosophy (3)
Prerequisites: ENG 101 and Sophomore Level
This course exposes the student to some of the basic issues in the Western philosophical tradition and examines topics such as metaphysics, epistemology and ethics. The course has an intensive reading and writing component; the student should be prepared to write essays on all topics covered.

PHIL 154 Business Ethics (3)
Prerequisites:
ENG 101, BUS101and Sophomore Level
A critical survey from the perspective of moral theory of business and business practices. Topics vary but usually include some of the following: whether the sole moral obligation of businesses is to make money; whether certain standard business practices, e.g., the creation of wants through advertising, are moral; and whether businesses ought to be compelled, e.g., to protect the environment or participate in affirmative action programs.

PHIL 160 Formal Logic (3)
Prerequisite: ENG 101.
An introductory study of logical truth and deductive inference, with emphasis on the development and mastery of formal system known as Sentential Logic. Validity and soundness will be carefully examined as they apply to deductive arguments. In addition, informal fallacies in natural language will be studied.

PHIL 190 Philosophy of Religion (3)
Prerequsite: ENG 101
This course will investigate fundamental problems raised by the theory and practice of monotheistic religions. Among the issues to be considered are: faith and reason, the causes of evil, the interpretation of sacred texts, proofs for the existence of God, religion and morality, and religious love. Each student will be encouraged to work out a personal constructive philosophy of religion.

PHIL 258 Ethics and the Computer
Prerequisites: ENG 101
Examination of ethical issues concerning the use of computers generally and software engineering in particular. Aims at developing awareness of these issues and skills for ethical decision making regarding them through careful, analytical methods. Typical issues include privacy, intellectual property, computer fraud, and others.

PHIL2301 Personal and Professional Ethics
Prerequisite: ENG 101
This course introduces students to the fundamental tools necessary for articulating the values and ethics for professions in the field of business, computer technology, law and to recognize areas of conflict between professional values and their own, and to develop skills to analyze and respond to such dilemmas. Case studies are emphasized as are class discussion and debate. Working as professionals in foreign cultures and countries, and the potential problems and conflicts that can arise in so doing, are also studied.

PHIL 280 Philosophy of Science (3)
Prerequisite: PHIL 160 and Sophomore Level
An examination of logical and methodical problems, related to the sciences, including the structure of scientific explanations, laws and theories; methods of concept formation; and confirmation and the problem of induction. Scientific revolutions, paradigm shifts and case studies are also studied.

PHIL 360 Advanced Formal Logic (3)
Prerequisite: PHIL 160 and Junior
Rigorous study of major developments in contemporary logic. Emphasis is given to theoretical problems and some attention is devoted to philosophical issues arising from logic. The student is introduced to quantificational logic including the construction and use of formal proofs..

POL SCI – POLITICAL SCIENCE

POL. SCI 140 Public Administration (3)
Prerequisite: Concurrent with ENG 101.
Survey of Public Administration, with reference to organization, financial Administration, personnel management, and judicial control of administrative process.

POL. Sci. 180 International Relations (3)
Prerequisite: ENG 101.
This course is an introduction to international relations. It explains the international system in which countries operate and the global political setting in which individuals act and respond. The course provides a historical background, as well as theoretical overview, and presents major actors in international relations.

PHY – PHYSICS

PHY 001 How Things Work (3)
Prerequisite: Concurrent ENG 101.
This course provides a practical introduction to understanding common life experiences by using physical institution and basic ideas of physics. Lecture course. (This course does not replace science courses for IT and Computer Science majors.)

PHY 101 Physics Concepts (3)
Prerequisite: MAT 90.
This course introduces the students to the fundamental principles of mechanics, electricity and magnetism, atomic physics, nuclear physics and quantum mechanics. The course emphasizes on the basic concepts in physics rather than on math.

PHY 111 Mechanics and Heat (5)
Prerequisite: MAT 80 or 100.
An introduction to the phenomena, concepts and laws of mechanics and heat for physics majors and students in other departments. Three hours of lecture, one hour of discussion, and two hours of laboratory per week.

PHY 112 Electricity, Magnetism, And Optics (5)
Prerequisite: PHY 111.
A phenomenological introduction to the concepts and laws of electricity and magnetism, electromagnetic waves, optics and electrical circuits for physics majors and students in other departments. Three hours of lecture, one hour of discussion, and two hours of laboratory per week.

PHYS 1401 Physics I (4)
Pre requisites: MAT 80or 100
This course covers two main areas in physics namely mechanics and thermodynamics. Mechanics deals with the motion of objects that are large compared to atoms and move with speeds much lower than the speed of light. Topics include motion in one and two dimensions, Newton's laws of motion, rotational and rolling motions, concept of energy, conservation laws.

PHYS 2401 Physics II (4)
Pre requisites: PHYS 1401
This course provides a phenomenological introduction to the concepts and laws of electricity and magnetism, electromagnetic waves, optics.

PRT – PRACTICAL

PRT 300 Work Study (Internship) (6)
Prerequisites: To register for this course, the student must complete at least 30 credit hours. The student will have to work in an approved organization for 300 hours.
Students are required to prepare a project report before he/she graduates.

PSYCH – PSYCHOLOGY

PSYCH 03 General Psychology (3)
Prerequisite: ENG 101 and Sophomore Level
This course provides a broad coverage of the field of psychology. It teaches the importance of psychology and its relevance to everyday life in an active, involved learning environment that helps develop independent thinking skills.

SOC – SOCIOLOGY

SOC 10 Introduction to Sociology (3)
Prerequisite: Concurrent ENG 101.
In introductory sociology students will learn to explore society from a sociological viewpoint. Just because we live in a society does not mean that we automatically know about it. Sociological insight is required to see through the explanations of social life. This course provides to expand students' knowledge about social behavior, organization and diversity within populations, and to familiarize them with the concepts of sociological study and its practical applications. It provides the ideal laboratory in which to study our society and our global neighbors from a more comprehensive and inclusive perspective.

STAT – STATISTICS

STAT 2310 Regression Analysis (3)
Prerequisite BUS 250
Measurement of relationships among variables including multiple regressions, partial correlation, and some nonparametric methods.

STAT 2320 Statistical Software and Data Analysis(3)
Prerequisite BUS250, COSC1300
Programming with major statistical packages, emphasizing major statistical techniques and statistical analysis for regression, analysis of variance, descriptive statistics.

STAT 2350 Probability Theory (3)
Prerequisite MATH 80, MATH 105
Probability spaces; random variables and their distributions; repeated trials; probability limit theorems.

STAT 3330 Analysis of Variance (3)
Prerequisite STAT 2310
Study of analysis of variance and related modeling techniques for cases with fixed, random, and mixed effects. Exposure to designs other than completely randomized designs including factorial arrangements, repeated measures, nested, and unequal sample size designs.

STAT 3340 Intr. to Bayesian Data Analysis (3)
Prerequisite BUS 250
Bayes formulas, choices of prior, empirical Bayesian methods, hierarchical Bayesian methods, statistical computation, Bayesian estimation, model selection, predictive analysis, applications, Bayesian software

STAT 3360 Statistical Inference (3)
Prerequisite STAT 2350
Sampling point, Estimation; sampling distribution; tests of hypotheses; regression and linear hypotheses.

STAT 4330 Categorical data analysis (3)
Prerequisite STAT 3360
Discrete distributions, frequency data, multinomial data, chi-square and likelihood ratio tests, logistic regression, log linear models, rates, relative risks, random effects, case studies.

STAT 4341 Applied Spatial Statistics (3)
Prerequisite: STAT 2310 or instructor's consent
Introduction to spatial random processes, spatial point patterns, kriging, simultaneous and conditional auto regression, and spatial data analysis.

STAT 4344 Nonparametric Methods (3)
Prerequisite: STAT 3360
A first course in Non-parametric statistical methods based on ranks. Both theory and application are emphasized. Two-sample problems. K-sample problems. Tests for independence. Contingency tables. Goodness-of-fit tests.

STAT 4358 Introduction to Stochastic Processes (3)
Prerequisite: STAT 2350

Study of random processes selected from: Markov chains, birth and death processes, random walks, Poisson processes, renewal theory, Brownian motion, Gaussian processes, white noise, spectral analysis, applications such as queuing theory, sequential tests.

STAT 4360 Applied Multivariate Data Analysis (3)
Prerequisite STAT 3360
Testing mean vectors; Discriminant analysis; Principal components; Factor analysis; Cluster analysis; Structural equation modeling; Graphics.

STAT 4362 Applied Survival Analysis (3)
Prerequisite: STAT 2310 and STAT 3360
Parametric models; Kaplan-Meier estimator; nonparametric estimation of survival and cumulative hazard functions; log-rank test; Cox model; Stratified Cox model; additive hazards model partial likelihood; regression diagnostics; multivariate survival data.

STAT 4370 Senior Seminar (3)
Prerequisite Instructor's Consent

The goal of this course is to provide a platform for students to discuss important problems in contemporary mathematical statistics as well as their on-going research. At the end of the seminars on a particular theme, groups of people with common interest in research problems in that topic are expected to work together.

STAT 4371 Time Series Analysis (3)
Prerequisite STAT 3360
A study of univariate and multivariate time series models and techniques for their analyses. Emphasis is on methodology rather than theory. Examples are drawn from a variety of areas including business, economics and soil science.

STAT 4399 Internship (3)

Prerequisite: Instructor's Consent

The Internship course is an opportunity to combine academic theory with new, career-related experience in statistics. The Internship in Statistics course is to be taken by statistics students who intern at an appropriate company or government agency performing statistical analysis under supervision of a corporate, or government, affiliate faculty member.

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