

<< Declaration of
BEng major

<< Declaration of
BBA major

School:

School of Science and School of Business Management

Program:

Dual Degree Program (BSc in Biotechnology and BBA in Economics)

Course
Offering Dept.
(course code prefix)

Course Code

Course Title / Courses List

Credits

Year 1
Fall

Year 1
Spring

Year 2
Fall

Year 2
Spring

Year 3
Fall

Year 3
Spring

Year 4
Fall

Year 4
Spring

Year 5
Fall

Year 5
Spring

Sub-total

Remarks

BSc in Biotechnology

School Requirements

COMP1021 OR COMP1022P OR COMP2011

Introduction to Computer Science

Introduction to Computing with Java

Programming with C++

English for Science I

3-4

3

3

4

3

0

Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020

SSCI

Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each of the four disciplines: CHEM, LIFS/OCES, MATH and PHYS; and (ii) 1 laboratory course.]

22-25

10

3

6

3

22

LIFS1901 & LIFS1902 are Major Pre-requisite

Students are recommended to take CHEM1010, CHEM1030, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements

Required credits for School / Major Pre-requisite Requirements

25-29

10

3

9

3

25

Major Requirements

Major Required Courses and Electives

LIFS1903

Laboratory for General Biology I

1

(1)

0

LIFS1904

Laboratory for General Biology II

1

1

1

LIFS2040

Cell Biology

3

3

3

LIFS2070

Introduction to Biotechnology

3

3

3

LIFS2080

Plant Biology

3

3

3

LIFS2210

Biochemistry I

3

(3)

0

LIFS3060

Microbiology

3

3

3

LIFS3110

Biotechnological Application of Recombinant DNA Techniques

3

3

3

LIFS3140

General Genetics

4

4

4

LIFS4150

Plant Biotechnology

3

3

3

LIFS4200

Concepts and Issues in Contemporary Biotechnology

3

3

3

LIFS4963 OR LIFS4973 AND LIFS4983 OR SCIE4500 AND LIFS4983

[Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]

3-7

LIFS4963

Biotechnology Capstone Project

3

LIFS4973

Biotechnology Project Research I

3

LIFS4983

Biotechnology Project Research II

4

SCIE4500

IRE Research Project II

3

CHEM1010 OR CHEM1020

General Chemistry IA

3

(3)

0

CHEM1012

General Chemistry B: Atomic Structure, Molecules, and Bonding Theories

3

CHEM1030

General Chemistry II

3

(3)

0

CHEM1051

Laboratory for General Chemistry A

1

1

1

CHEM1052

Laboratory for General Chemistry B

1

1

1

CHEM2110 OR CHEM2311

Organic Chemistry I

3

3

3

CHEM2311

Analytical Chemistry

3

CHEM2155 OR CHEM2355

Fundamental Organic Chemistry Laboratory

1

1

1

CHEM2355

Fundamental Analytical Chemistry Laboratory

1

CENG1600

Biotechnology and Its Business Opportunities

3

3

3

LANG3024

Science Communication in English (Life Science)

3

3

3

LIFS/ BIPH/ BTEC/ OCES/ PHYS/ BIEN/ CENG

15-18

3

3

6

3

15

Required credits for Major Required Courses and Electives

62-70

1

2

3

6

6

7

10

3

9

9

56

BBA in Economics

School Requirements

ACCT2010

Principles of Accounting I

3

3

3

ACCT2200

Principles of Accounting II

3

3

3

ECON2103 OR ECON2113

Principles of Microeconomics

3

3

3

ECON 2103 / 2113 / 2123 is a major pre-requisite

ECON2113

Microeconomics

3

ECON2123 OR ECON3123

Macroeconomics

3

3

3

ECON3123

Macroeconomic Theory I

3

FINA2303

Financial Management

3

3

3

ISOM2010

Introduction to Information Systems

3

0

Substituted by COMP 1021/ 1022P/ 2011

ISOM2020

Coding for Business

1

0

Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P

ISOM2500

Business Statistics

3

3

3

ISOM2600

Introduction to Business Analytics

1

1

1

ISOM2700

Operations Management

3

3

3

MARK2120

Marketing Management

3

3

3

MGMT2010

Business Ethics and the Individual

2

2

2

MGMT2110

Organizational Behavior

3

3

3

MGMT2130

Business Ethics and Social Responsibility

2

2

2

LABU2040

Business Case Analyses

0

0

Waived for DDP students

ECON3700

Writing as an Economist

3

3

3

MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023

Calculus and Linear Algebra

3-4

MATH1012

Calculus IA

3

(3)

MATH1013

Calculus IB

4

MATH1020

Accelerated Calculus

4

MATH1023

Honors Calculus I

3

Required credits for School Requirements

43-44

0

5

6

10

3

6

0

3

0

2

35

Major Requirements

Major Required Courses and Electives

ECON3014

Managerial Microeconomics

4

4

4

ECON3024

Managerial Macroeconomics

4

4

4

ECON3334

Introduction to Econometrics

4

4

4

ECON4000-level Electives (Any 3 courses of the subject and level as specified)

11

4

4

3

11

Required credits for Major Required Courses and Electives

23

0

0

0

0

4

4

4

4

4

3

23

Additional Requirements

Requirements for Dual Degree Program

Required Courses

TEMG1010

T&M Professional Activities

0

0

0

0

0

0

0

0

0

0

0

0

TEMG3950

T&M Case Analysis and Product Innovation

3

3

3

TEMG4950

T&M Corporate Consulting Project

3-5

4

4

Required credits for Additional Requirements

7

0

3

0

0

4

0

0

0

0

0

7

University CORE

CORE C3 - C9

U CORE - Others

21

3

3

9

3

3

21

CORE C1 & C2

U CORE - English Language

6

3

3

6

CORE 1905

Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

3

0

3

3

Sub-total for University CORE

30

6

6

0

0

0

0

3

9

3

3

30

17

19

18

19

17

17

17

19

16

17

176##

Notes:

@ Course that students need to complete before enrolling into respective major/programs.
() indicates the reuse of the same course to fulfill more than one requirement.
[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.
--- denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.