

The following proposals, received on DAP between the dates listed below, have been approved.

**DAP Submission Period:** October 16/31, 2020 DAP Approval Date: November 16, 2020

For more information on the DAP process, see the Secretariat's website.

Approval Route: DAP

## **Faculty of Engineering**

## CHEMICAL AND BIOCHEMICAL ENGINEERING

Effective September 1, 2021, the following change(s) be made: Program Revision.

A. GENERAL CHEMICAL ENGINEERING OPTION

**Engineering Common First Year Program** 

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

**B. BIOCHEMICAL AND ENVIRONMENTAL ENGINEERING OPTION** 

**Engineering Common First Year Program** 

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

Effective September 1, 2021, the following change(s) be made: Program Revision.

C. CHEMICAL ENGINEERING/HBA

**Engineering Common First Year Program** 

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

**DAP Submission Period:** October 16/31, 2020

Effective September 1, 2021, the following change(s) be made: Program Revision.

## D. CHEMICAL ENGINEERING/LAW

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### F. CHEMICAL ENGINEERING AND BIOMEDICAL ENGINEERING

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### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1026A/B, Physics 1401A/B, and Physics 1402A/B.

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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## CIVIL AND ENVIRONMENTAL ENGINEERING

Effective September 1, 2021, the following change(s) be made: Program Revision.

#### A. STRUCTURAL ENGINEERING OPTION

Students entering the Civil Engineering program must have completed the entire first year program in Engineering, with no outstanding credits to be taken, and have a Year Weighted Average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Physics 1401A/B, Engineering Science 1022A/B/Y and Engineering Science 1021A/B.

## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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**DAP Submission Period:** October 16/31, 2020

## Effective September 1, 2021, the following change(s) be made: Program Revision.

#### **B. ENVIRONMENTAL ENGINEERING OPTION**

Students entering the Civil Engineering program must have completed the entire first year program in Engineering, with no outstanding credits to be taken, and have a Year Weighted Average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Physics 1401A/B, Engineering Science 1022A/B/Y and Engineering Science 1021A/B.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

#### Effective September 1, 2021, the following change(s) be made: Program Revision.

#### C. CIVIL ENGINEERING/HBA

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

### **Second Year Program**

Applied Mathematics 2270A/B, Applied Mathematics 2277A/B, CEE 2202A/B, CEE 2217A/B, CEE 2219A/B, CEE 2220A/B, CEE 2221A/B, CEE 2224, Earth Sciences 2281A/B, Business Administration 2257.

Note: CEE 3324A/B (Surveying). This course is available each summer (15 days) and must be completed before a student may graduate from the Civil Engineering program.

#### **Third Year Program**

The third year of the undergraduate program in Business Administration consists of an integrated set of courses (7.5 courses) designed to give a basic understanding of the functions and the interrelationships of the major areas of management, as well as to develop problem-solving and action-planning skills.

All students will take: Business Administration 3300K, Business Administration 3301K, Business Administration 3302K, Business Administration 3303K, Business Administration 3304K, Business Administration 3311K, Business Administration 3316K, Business Administration 3321K, Business Administration 3323K.

#### Fourth Year Program

CEE 3321A/B, CEE 3322A/B, CEE 3340A/B, CEE 3343A/B, CEE 3344A/B, CEE 3346A/B, CEE 3347A/B, CEE 3348A/B, CEE 3369A/B, Statistical Sciences 2141A/B or Statistical Sciences 2143A/B\*.

Applied Project Requirement: Business Administration 4569.

**DAP Submission Period:** October 16/31, 2020

\*Note: A student may, with the permission of the department counsellor, substitute Statistical Sciences 2143A/B for Statistical Sciences 2141A/B

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Effective September 1, 2021, the following change(s) be made: Program Revision.

D. CIVIL ENGINEERING/LAW

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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#### ELECTRICAL AND COMPUTER ENGINEERING

Effective September 1, 2021, the following change(s) be made: Program Revision.

#### A. ELECTRICAL ENGINEERING PROGRAM

Students entering the Electrical Engineering program must have completed the entire first-year program in Engineering, with no outstanding credits to be taken, and have a year-weighted average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Engineering Science 1036A/B, and Physics 1402A/B.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### **B. ELECTRICAL ENGINEERING/HBA**

**Engineering Common First Year Program** 

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Applied Mathematics 1410A/B, Engineering Science 1021A/B, Applied Mathematics 1410A/B, Applied Mathemati

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

**DAP Submission Period:** October 16/31, 2020

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### D. ELECTRICAL ENGINEERING/LAW

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## **Engineering Common First Year Program**

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business

Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### H. ELECTRICAL ENGINEERING AND BIOMEDICAL ENGINEERING

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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# ELECTRICAL AND COMPUTER ENGINEERING - COMPUTER ENGINEERING PROGRAM

Effective September 1, 2021, the following change(s) be made: Program Revision.

#### A. ELECTRONIC DEVICES FOR UBIQUITOUS COMPUTING

Students entering the Computer Engineering program must have completed the entire first-year program in Engineering, with no outstanding credits to be taken, and have a year-weighted average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Engineering Science 1036A/B, and Physics 1402A/B.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

**DAP Submission Period:** October 16/31, 2020

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### **B. SOFTWARE SYSTEMS FOR UBIQUITOUS COMPUTING**

## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### C. ELECTRONIC DEVICES FOR UBIQUITOUS COMPUTING/HBA

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### D. SOFTWARE SYSTEMS FOR UBIQUITOUS COMPUTING/HBA

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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## ELECTRICAL AND COMPUTER ENGINEERING - SOFTWARE ENGINEERING PROGRAM

Effective September 1, 2021, the following change(s) be made: Program Revision.

**DAP Submission Period:** October 16/31, 2020

#### **B. SOFTWARE ENGINEERING/HBA**

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### C. SOFTWARE ENGINEERING/LAW

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### SOFTWARE ENGINEERING PROGRAM

Admission Requirements for the Software Engineering Program Students entering the Software Engineering program must have completed the entire first-year program in Engineering, with no outstanding credits to be taken, and have a year-weighted average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, and Engineering Science 1036A/B.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Applied Mathematics 1411A/B, Applied Mathematics 1411A/B, Applied Mathematics 1411A/B, Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1411A/B, Applied Mathematics 1411A/B

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

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# JOHN M. THOMPSON CENTRE OF ENGINEERING LEADERSHIP AND INNOVATION

Effective September 1, 2021, the following change(s) be made: Program Revision.

**DAP Submission Period:** October 16/31, 2020

#### **B. INTEGRATED ENGINEERING/HBA**

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### D. INTEGRATED ENGINEERING/LAW

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### INTEGRATED ENGINEERING PROGRAM

Students entering the Integrated Engineering program must have completed the entire first year program in Engineering, with no outstanding credits to be taken, and have a Year Weighted Average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Physics 1401A/B, Physics 1402A/B and Engineering Science 1022A/B/Y.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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## MECHANICAL AND MATERIALS ENGINEERING

Effective September 1, 2021, the following change(s) be made: Program Revision.

**DAP Submission Period:** October 16/31, 2020

#### A. MECHANICAL ENGINEERING OPTION

Students entering the Mechanical Engineering program must have completed the entire first year program in Engineering, with no outstanding credits to be taken, and have a Year Weighted Average (YWA) of at least 60%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Physics 1401A/B and Engineering Science 1022A/B/Y and Engineering Science 1021A/B.

#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

**Half-year courses**: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### **B. MECHANICAL ENGINEERING/LAW**

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

## D. MECHANICAL ENGINEERING/HBA

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## **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

F. MECHANICAL ENGINEERING AND BIOMEDICAL ENGINEERING

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**DAP Submission Period:** October 16/31, 2020

## **Engineering Common First Year Program**

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business

Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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## MECHATRONIC SYSTEMS ENGINEERING

Effective September 1, 2021, the following change(s) be made: Program Revision.

### **B. MECHATRONIC SYSTEMS ENGINEERING/HBA**

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

#### C. MECHATRONIC SYSTEMS ENGINEERING/LAW

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

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Effective September 1, 2021, the following change(s) be made: Program Revision.

## D. MECHATRONIC SYSTEMS ENGINEERING AND BIOMEDICAL ENGINEERING

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#### **Engineering Common First Year Program**

**Full-year courses**: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B,

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Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B. (Three of the half courses are taken in each term as scheduled)

## Effective September 1, 2021, the following change(s) be made: Program Revision.

## **MECHATRONIC SYSTEMS ENGINEERING**

Students entering the Mechatronic Systems Engineering program must have completed the entire first year program in Engineering, with no outstanding credits to be taken, and have a Year Weighted Average (YWA) of at least 70%. First consideration will be given to applicants with a minimum grade of 60% in each of the following courses: Applied Mathematics 1411A/B, Applied Mathematics 1413, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Engineering Science 1022A/B/Y, Engineering Science 1036A/B, Engineering Science 1050, Physics 1401A/B and Physics 1402A/B.

### **Engineering Common First Year Program**

Full-year courses: Applied Mathematics 1413, Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y

Half-year courses: Applied Mathematics 1411A/B, Applied Mathematics 1412A/B, Applied Mathematics 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)