

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING CURRICULUM (B.S. IE)

(Curriculum applicable to students who entered as freshmen beginning school year 2015-2016)

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|--|-------------|------------|--------------|---------------|---------------|-------------------------|
| 1 | 1 | DRAW021W | ENGINEERING DRAWING 1 (DRAW) | - | 3.0 | 1.0 | None | None | CAS |
| 1 | 1 | ENG021 | ENGLISH FOR ACADEMIC STUDIES 1 | 4.5 | - | 3.0 | None | None | CAS |
| 1 | 1 | FIL001 | KOMUNIKASYON SA AKADEMIKONG FILIPINO | 4.5 | - | 3.0 | None | None | CAS |
| 1 | 1 | MATH011 | ALGEBRA | 4.5 | - | 3.0 | None | None | CAS |
| 1 | 1 | CHM021 | GENERAL CHEMISTRY 1 | 3.0 | - | 2.0 | None | None | CAS |
| 1 | 1 | CHM021L | GENERAL CHEMISTRY 1 LABORATORY | - | 3.0 | 1.0 | None | CHM021 | CAS |
| 1 | 1 | PE011 | PHYSICAL EDUCATION 1: PHYSICAL FITNESS & GYMNASICS | - | 3.0 | 2.0 | None | None | CAS |
| 1 | 1 | NSTP010 | OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM | 3.0 | - | 3.0 | None | None | CSCE |
| 1 | 1 | VE011 | VALUES EDUCATION 1 | 1.5 | - | 1.0 | None | None | CAS |
| Total | | | | 21.0 | 9.0 | 19.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|------------|--|-------------|-------------|--------------|-----------------|---------------|-------------------------|
| 1 | 2 | DRAW022W | ENGINEERING DRAWING 2 (DRAW) | - | 3.0 | 1.0 | DRAW021W | None | CAS |
| 1 | 2 | ENG022 | ENGLISH FOR ACADEMIC STUDIES 2 | 4.5 | - | 3.0 | ENG021 | None | CAS |
| 1 | 2 | FIL002 | PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK | 4.5 | - | 3.0 | FIL001 | None | CAS |
| 1 | 2 | MATH011-2 | ADVANCED ALGEBRA | 3.0 | - | 2.0 | MATH011 | None | CAS |
| 1 | 2 | MATH012 | PLANE AND SPHERICAL TRIGONOMETRY | 4.5 | - | 3.0 | MATH011 | None | CAS |
| 1 | 2 | CHM022 | GENERAL CHEMISTRY 2 | 3.0 | - | 2.0 | CHM021 | None | CAS |
| 1 | 2 | CHM022L | GENERAL CHEMISTRY 2 LABORATORY | - | 3.0 | 1.0 | CHM021, CHM021L | CHM022 | CAS |
| 1 | 2 | PE012 | PHYSICAL EDUCATION 2: DANCE & MARTIAL ARTS | - | 3.0 | 2.0 | PE011 | None | CAS |
| 1 | 2 | NSTP011-1P | CIVIC WELFARE TRAINING SERVICE | 4.0 | 3.0 | 3.0 | NSTP010 | None | CSCE |
| 1 | 2 | VE012 | VALUES EDUCATION 2 | 1.5 | - | 1.0 | VE011 | None | CAS |
| Total | | | | 25.0 | 12.0 | 21.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|--|-------------|------------|--------------|-----------------|---------------|-------------------------|
| 1 | 3 | DRAW023L | COMPUTER-AIDED DRAFTING AND DESIGN (LAB) | - | 3.0 | 1.0 | DRAW022W | None | CAS |
| 1 | 3 | ENG023 | ENGLISH FOR ACADEMIC STUDIES 3 | 4.5 | - | 3.0 | ENG022 | None | CAS |
| 1 | 3 | MATH013 | ANALYTIC GEOMETRY | 4.5 | - | 3.0 | MATH012 | None | CAS |
| 1 | 3 | MATH014 | SOLID MENSURATION | 3.0 | - | 2.0 | MATH012 | None | CAS |
| 1 | 3 | MATH021 | CALCULUS 1 | 4.5 | - | 3.0 | MATH012 | MATH013 | CAS |
| 1 | 3 | CHM023 | GENERAL CHEMISTRY 3 | 3.0 | - | 2.0 | CHM022 | None | CAS |
| 1 | 3 | CHM023L | GENERAL CHEMISTRY 3 LABORATORY | - | 3.0 | 1.0 | CHM022, CHM022L | CHM023 | CAS |
| 1 | 3 | PE013 | PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS | - | 3.0 | 2.0 | None | None | CAS |
| Total | | | | 19.5 | 9.0 | 17.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|---------|--|-------------|------------|--------------|------------------|---------------|-------------------------|
| 2 | 1 | CS001P | COMPUTER FUNDAMENTALS AND PROGRAMMING 1 (PAIRED) | 1.5 | 3.0 | 2.0 | None | None | CIT |
| 2 | 1 | HUM011 | LOGIC REASONING WITH CRITICAL THINKING | 4.5 | - | 3.0 | None | None | CAS |
| 2 | 1 | SS017 | SOCIETY, CULTURE & FAMILY LIFE | 4.5 | - | 3.0 | None | None | CAS |
| 2 | 1 | MATH022 | CALCULUS 2 | 4.5 | - | 3.0 | MATH021, MATH013 | None | CAS |
| 2 | 1 | PHY021 | PHYSICS 1 | 4.5 | - | 3.0 | MATH021 | None | CAS |
| 2 | 1 | PHY021L | PHYSICS 1 (LAB) | - | 3.0 | 1.0 | MATH021 | PHY021 | CAS |
| Total | | | | 19.5 | 6.0 | 15.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|------|------|---------|--|---------|---------|-------------|------------------|---------------|-------------------------|
| 2 | 2 | CS002P | COMPUTER FUNDAMENTALS AND PROGRAMMING 2 (PAIRED) | 1.5 | 3.0 | 2.0 | CS001P | None | CIT |
| 2 | 2 | HUM016 | ADVANCED LOGIC AND REASONING | 4.5 | - | 3.0 | HUM011 | None | CAS |
| 2 | 2 | SS016 | PHILIPPINE HISTORY | 4.5 | - | 3.0 | None | None | CAS |
| 2 | 2 | MATH023 | CALCULUS 3 | 4.5 | - | 3.0 | MATH022 | None | CAS |
| 2 | 2 | PHY022 | PHYSICS 2 | 4.5 | - | 3.0 | PHY021, MATH022 | None | CAS |
| 2 | 2 | PHY022L | PHYSICS 2 (LAB) | - | 3.0 | 1.0 | PHY021, PHY021L, | PHY022 | CAS |

| | | | | | | | | | |
|--------------|---|-------|-----------------------------------|-------------|------------|--------------|---------|------|-----|
| | | | | | | | MATH022 | | |
| 2 | 2 | PE014 | PHYSICAL EDUCATION 4: TEAM SPORTS | - | 3.0 | 2.0 | None | None | CAS |
| Total | | | | 19.5 | 9.0 | 17.0* | | | |

| Year | | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|---|---------|---|-------------|------------|--------------|-------------------------------|---------------|-------------------------|
| 2 | 3 | SS013 | ECONOMICS, TAXATION & AGRARIAN REFORM | 4.5 | - | 3.0 | None | None | CAS |
| 2 | 3 | SS015 | POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION | 4.5 | - | 3.0 | None | None | CAS |
| 2 | 3 | MATH025 | DIFFERENTIAL EQUATIONS | 4.5 | - | 3.0 | MATH023 | None | CAS |
| 2 | 3 | PHY023 | PHYSICS 3 | 4.5 | - | 3.0 | PHY022 | None | CAS |
| 2 | 3 | PHY023L | PHYSICS 3 (LAB) | - | 3.0 | 1.0 | PHY022, PHY022L | PHY023 | CAS |
| 2 | 3 | ECE120L | INTRODUCTION TO MATLAB (LAB) | - | 3.0 | 1.0 | 2 nd Year Standing | None | MITL |
| Total | | | | 18.0 | 6.0 | 14.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|---|-------------|------------|--------------|-----------------|---------------|-------------------------|
| 3 | 1 | MATH110 | PROBABILITY AND STATISTICS | 4.5 | - | 3.0 | MATH011 | None | CAS |
| 3 | 1 | MEC101 | STATICS OF RIGID BODIES | 4.5 | - | 3.0 | MATH022, PHY022 | None | CAS |
| 3 | 1 | ACT101-9 | FUNDAMENTALS OF ACCOUNTING FOR BUSINESS | 4.5 | - | 3.0 | None | None | ETYCB |
| 3 | 1 | MATH115 | ADVANCED ENGINEERING MATHEMATICS | 4.5 | - | 3.0 | MATH025 | None | MITL |
| 3 | 1 | EEO101 | ENGINEERING ECONOMY | 4.5 | - | 3.0 | None | None | MITL |
| 3 | 1 | BEC198-1 | BASIC ENGINEERING CORRELATION 1 | - | 3.0 | 1.0 | CHM023, PHY023 | None | MITL |
| Total | | | | 22.5 | 3.0 | 16.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|--|-------------|------------|--------------|-------------------------------|---------------|-------------------------|
| 3 | 2 | MEC102 | DYNAMICS OF RIGID BODIES | 3.0 | - | 2.0 | MEC101 | None | CAS |
| 3 | 2 | ACT111-9 | FINANCIAL ACCOUNTING FOR BUSINESS | 4.5 | - | 3.0 | ACT101-9 | None | ETYCB |
| 3 | 2 | SAF101 | SAFETY MANAGEMENT | 1.5 | - | 1.0 | 3 rd Year Standing | None | MITL |
| 3 | 2 | IE102 | INDUSTRIAL MATERIALS AND PROCESSES | 3.0 | - | 2.0 | DRAW021W, CHM023, PHY023 | None | MITL |
| 3 | 2 | IE102L | INDUSTRIAL MATERIALS AND PROCESSES (LAB) | - | 4.5 | 1.0 | DRAW021W, CHM023, PHY023 | IE102 | MITL |
| 3 | 2 | IE104 | ADVANCED STATISTICS | 4.5 | - | 3.0 | MATH110 | None | MITL |
| 3 | 2 | EMGT 101 | ENGINEERING MANAGEMENT | 4.5 | - | 3.0 | None | None | MITL |
| Total | | | | 21.0 | 4.5 | 15.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|---------------------------------|-------------|------------|--------------|---------------------------------|---------------|-------------------------|
| 3 | 3 | MEC103 | MECHANICS OF DEFORMABLE BODIES | 4.5 | - | 3.0 | MEC101 | None | CAS |
| 3 | 3 | VE 013 | VALUES EDUCATION 3 | 1.5 | - | 1.0 | VE011 | None | CAS |
| 3 | 3 | ACT154 | MANAGERIAL ACCOUNTING | 4.5 | - | 3.0 | ACT111-9 | None | ETYCB |
| 3 | 3 | MATH160 | NUMERICAL METHODS | 4.5 | - | 3.0 | MATH025 | None | MITL |
| 3 | 3 | IE111 | METHODS STUDY 1 | 3.0 | - | 2.0 | MATH110, IE 102, EMGT101 | None | MITL |
| 3 | 3 | IE111L | METHODS STUDY 1 (LAB) | - | 4.5 | 1.0 | MATH110, IE102, IE102L, EMGT101 | IE111 | MITL |
| 3 | 3 | IE103 | INDUSTRIAL QUALITY CONTROL | 4.5 | - | 3.0 | IE104 | None | MITL |
| 3 | 3 | BEC198-2 | BASIC ENGINEERING CORRELATION 2 | - | 3.0 | 1.0 | MATH115 | None | MITL |
| Total | | | | 22.5 | 7.5 | 17.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|---------|-----------------------------|-------------|------------|--------------|-----------------|---------------|-------------------------|
| 4 | 1 | ENG041L | ENGLISH FOR THE WORKPLACE 1 | - | 3.0 | 1.0 | ENG013 | None | CAS |
| 4 | 1 | ECO103 | PRINCIPLES OF ECONOMICS | 4.5 | - | 3.0 | MATH011 | None | ETYCB |
| 4 | 1 | EENV101 | ENVIRONMENTAL ENGINEERING | 3.0 | - | 2.0 | CHM023, CHM023L | None | MITL |
| 4 | 1 | ME111 | THERMODYNAMICS 1 | 4.5 | - | 3.0 | MATH023, PHY023 | None | MITL |
| 4 | 1 | IE112 | METHODS STUDY 2 | 3.0 | - | 2.0 | IE111 | None | MITL |
| 4 | 1 | IE112L | METHODS STUDY 2 (LAB) | - | 4.5 | 1.0 | IE111, IE111L | IE112 | MITL |
| 4 | 1 | IE121 | OPERATIONS RESEARCH 1 | 4.5 | - | 3.0 | MATH115 | None | MITL |
| Total | | | | 19.5 | 7.5 | 15.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|---------|------------------------------|-------------|-------------|--------------|---------------|---------------|-------------------------|
| 4 | 2 | ENG042L | ENGLISH FOR THE WORKPLACE 2 | - | 3.0 | 1.0 | ENG041L | None | CAS |
| 4 | 2 | IE113 | STATISTICAL QUALITY CONTROL | 4.5 | - | 3.0 | IE103 | None | MITL |
| 4 | 2 | IE115 | ERGONOMICS | 4.5 | - | 3.0 | IE112 | None | MITL |
| 4 | 2 | IE115L | ERGONOMICS (LAB) | - | 4.5 | 1.0 | IE112, IE112L | IE 115 | MITL |
| 4 | 2 | RES101P | METHODS OF RESEARCH (PAIRED) | 1.5 | 3.0 | 2.0 | MATH110 | None | MITL |
| 4 | 2 | IE122 | OPERATIONS RESEARCH 2 | 4.5 | - | 3.0 | IE121, IE104 | None | MITL |
| Total | | | | 15.0 | 10.5 | 13.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|-----------------------------|--------------|--------------|--------------|------------------------------|---------------|-------------------------|
| 4 | 3 | ENG043L | ENGLISH FOR THE WORKPLACE 3 | - | 3.0 | 1.0 | ENG042L | None | CAS |
| 4 | 3 | MATH140 | DISCRETE MATHEMATICS | 4.5 | - | 3.0 | MATH011 | None | CAS |
| 4 | 3 | VE014 | VALUES EDUCATION 4 | 1.5 | - | 1.0 | VE013 | None | CAS |
| 4 | 3 | IE131 | PRODUCTION SYSTEMS | 4.5 | - | 3.0 | IE121, IE112, IE113 | None | MITL |
| 4 | 3 | IE141P | SYSTEMS SIMULATION (PAIRED) | 1.5 | 4.5 | 2.0 | IE122, IE113 | None | MITL |
| 4 | 3 | IEELEC01 | IE ELECTIVE 1 | * | * | 3.0 | * | * | MITL |
| 4 | 3 | IE200D-1 | IE CAPSTONE PROJECT 1 | - | 3.0 | 1.0 | RES 101P | None | MITL |
| 4 | 3 | IE198 | IE CORRELATION 1 | - | 3.0 | 1.0 | IE103, EECO101, IE115, IE122 | None | MITL |
| Total | | | | 12.0+ | 13.5+ | 15.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|--------|--------------|----------|-------------|-------------|---------------------|---------------|-------------------------|
| 4 | 4 | IE199R | IE PRACTICUM | - | 13.5 | 3.0 | IE115, IE122, IE131 | None | MITL |
| Total | | | | 0 | 13.5 | 3.0* | | | |

| Year | Term | Code | Title | Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|---|--------------|-------------|--------------|-----------------|---------------|-------------------------|
| 5 | 1 | EE104 | BASIC ELECTRICAL ENGINEERING | 4.5 | - | 3.0 | PHY023, PHY023L | None | MITL |
| 5 | 1 | IE132 | FACILITIES PLANNING AND DESIGN PRINCIPLES | 4.5 | - | 3.0 | IE131 | None | MITL |
| 5 | 1 | IE151 | PROJECT FEASIBILITY | 3.0 | - | 2.0 | ACT154, IE131 | None | MITL |
| 5 | 1 | IEELEC02 | IE ELECTIVE 2 | * | * | 3.0 | * | * | MITL |
| 5 | 1 | IE200D-2 | IE CAPSTONE PROJECT 2 | - | 3.0 | 1.0 | IE200D-1 | None | MITL |
| Total | | | | 12.0+ | 3.0+ | 12.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|----------|-------------------------------|--------------|--------------|--------------|-------------------------------|---------------|-------------------------|
| 5 | 2 | IT120 | INFORMATION SYSTEMS | 4.5 | - | 3.0 | CS002P | None | CIT |
| 5 | 2 | IE152 | SYSTEMS ENGINEERING | 4.5 | - | 3.0 | IE132 | None | MITL |
| 5 | 2 | IE114L | IE COMPUTER APPLICATIONS | - | 4.5 | 1.0 | IE115, IE132 | None | MITL |
| 5 | 2 | IE151F | PROJECT FEASIBILITY (FIELD) | - | 4.5 | 1.0 | IE151 | None | MITL |
| 5 | 2 | IE181 | ENGINEERING VALUES AND ETHICS | 3.0 | - | 2.0 | 5 th Year Standing | None | MITL |
| 5 | 2 | | IE ELECTIVE 3 | * | * | 3.0 | * | * | MITL |
| 5 | 2 | IE200D-3 | IE CAPSTONE PROJECT 3 | - | 3.0 | 1.0 | IE200D-2 | None | MITL |
| Total | | | | 12.0+ | 12.0+ | 14.0* | | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/Dept. |
|--------------|------|---------|--|-------------|-------------|--------------|-------------------------------|---------------|-------------------------|
| 5 | 3 | SS014 | JOSE RIZAL & THE DEVELOPMENT OF FILIPINO NATIONALISM | 4.5 | - | 3.0 | None | None | CAS |
| 5 | 3 | HUM014 | PHILIPPINE LITERATURE IN ENGLISH | 4.5 | - | 3.0 | None | None | CAS |
| 5 | 3 | IE191F | IE SEMINARS AND PLANT VISITS (FIELD) | - | 4.5 | 1.0 | 5 th Year Standing | None | MITL |
| 5 | 3 | IE198-1 | IE CORRELATION 2 | - | 3.0 | 1.0 | MEC103, IE151, IE132, IE152 | None | MITL |
| 5 | 3 | | IE ELECTIVE 4 | * | * | 3.0 | * | * | MITL |
| Total | | | | 9.0+ | 7.5+ | 11.0* | | | |

**PE, NSTP, VE and CORRELATION units are not considered in the computation of TWA and maximum load per term.*

TOTAL NO. OF UNITS: 234.00

LESS NON-ACADEMIC UNITS: 22.00

*See table of Specs for Electives

+ Add lecture and laboratory hours of chosen Elective courses as reflected in the table of Specs

IE ELECTIVES FOR BATCH 2015

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Total Units | Prerequisites | Co-requisites | Servicing College/ Department |
|------|------|--------|--|---------|---------|-------------|-------------------|---------------|-------------------------------|
| | | IE411 | COGNITIVE ENGINEERING | 4.5 | - | 3.0 | IE115 | None | MITL |
| | | IE422 | COMPENSATION ADMINISTRATION | 4.5 | - | 3.0 | IE131 | None | MITL |
| | | IE133 | OCCUPATIONAL SAFETY AND HEALTH | 4.5 | - | 3.0 | SAF101 | None | MITL |
| | | IE134 | RISK ANALYSIS AND MANAGEMENT | 4.5 | - | 3.0 | IE131 | None | MITL |
| | | IE135 | TOTAL PRODUCTIVE MAINTENANCE AND RELIABILITY | 4.5 | - | 3.0 | IE103 | None | MITL |
| | | IE171 | SIX SIGMA AND LEAN MANUFACTURING | 4.5 | - | 3.0 | IE103 | None | MITL |
| | | IE172 | NEW TRENDS IN IE | 4.5 | - | 3.0 | 5th year standing | None | MITL |
| | | IE173 | SPECIAL TOPICS IN IE | 4.5 | - | 3.0 | IE122 | None | MITL |
| | | IE161P | SAP ERP 6.0 | 3 | 4.5 | 3.0 | IE131 | None | MITL |
| | | IE162P | SAP ERP GBI2.11 | 1.5 | 6 | 3.0 | IE131 | None | MITL |
| | | IE163P | ORACLE | 1.5 | 6 | 3.0 | IE131 | None | MITL |

NOTE: Elective courses offering per term will depend on the availability of instructor and compliance of prerequisite courses for specific elective course.