

**The recognition of selected courses (up-to 9 credits) earned from other departments into Industrial & Systems Engineering Department**

updated on August 3, 2018

\* The below mentioned subjects will be recognized up-to 9 credits as graduation requirements of elective courses for Industrial & Systems Engineering Department when undergraduate students admitted BEFORE or in year of 2015 will take them.

\* The below mentioned subjects will be subject to change every year.

So, please check out if the registering subject will included in the reconition list beforehand.

| No | Department/School to open                               | Subject code | Subject name   | Note                               |
|----|---|--------------|--|------------------------------------|
| 1  | Civil and Environmental Engineering                     | CE201        | Mechanics of Materials                                 |                                    |
| 2  | Civil and Environmental Engineering                     | CE206        | Introduction to sustainable Engineering                |                                    |
| 3  | Civil and Environmental Engineering                     | CE272        | Environmental Science                                  | Spring 2010 Closed                 |
| 4  | Civil and Environmental Engineering                     | CE350        | Introduction to Transportation Systems Engineering     |                                    |
| 5  | Civil and Environmental Engineering                     | CE474        | Environmental Management Engineering                   |                                    |
| 6  | Management Science                                      | MGT340       | Managing people and Organization                       |                                    |
| 7  | Business and Technology Management                      | MSB215       | Microeconomics   |                                    |
| 8  | Business and Technology Management                      | MSB230       | Principles of Accounting                               | MSB30 Accounting Principles (09.9) |
| 9  | Business and Technology Management                      | MSB235       | Financing  |                                    |
| 10 | Business and Technology Management                      | MSB236       | Marketing  |                                    |
| 11 | Business and Technology Management                      | MSB316       | Macroeconomics   |                                    |
| 12 | Business and Technology Management                      | MSB401       | Management of Technology Innovation                    |                                    |
| 13 | Business and Technology Management                      | MSB411       | Investments  |                                    |
| 14 | Business and Technology Management                      | MSB450       | Entrepreneurship & Venture Business                    |                                    |
| 15 | Business and Technology Management                      | MSB481       | Special Topics I in Business and Technology Management |                                    |
| 16 | Economics Program                                       | ECN201       | Microeconomics Principles                              |                                    |
| 17 | Economics Program                                       | ECN202       | Macroeconomics Principles                              |                                    |
| 18 | Mechanical Engineering                                  | ME200        | Basic Mechanical Practice                              |                                    |
| 19 | Mechanical Engineering                                  | ME205        | Mechanical Engineering Laboratory                      | ME303 Substitution(18.5)           |
| 20 | Mechanical Engineering                                  | ME206        | Machine System Automation                              |                                    |
| 21 | Mechanical Engineering                                  | ME208        | New Design and Experience in Mechanical Systems        |                                    |
| 22 | Mechanical Engineering                                  | ME231        | Mechanics of Materials                                 |                                    |
| 23 | Mechanical Engineering                                  | ME302        | Creative Problem Solving                               |                                    |
| 24 | Mechanical Engineering                                  | ME370        | Understanding of Materials and Processing              |                                    |
| 25 | Mechanical Engineering                                  | ME453        | Introduction to Robotics Engineering                   |                                    |
| 26 | Mechanical Engineering                                  | ME460        | Automatic Control                                      |                                    |
| 27 | Graduate School of Innovation and Technology Management | ITM667       | M&A and Corporate Restructuring                        |                                    |
| 28 | Graduate School of Culture Technology                   | GCT582       | Culture Content Industry                               |                                    |
| 29 | Physics   | PH221        | Classical Mechanics I                                  |                                    |
| 30 | Bio and Brain Engineering                               | BiS200       | Bioengineering Fundamentals                            |                                    |
| 31 | Bio and Brain Engineering                               | BiS232       | Bio-Data Structures                                    |                                    |
| 32 | Bio and Brain Engineering                               | BiS252       | Bioinstrumentation Fundamentals                        |                                    |
| 33 | Bio and Brain Engineering                               | BiS321       | Systems Biotechnology                                  |                                    |
| 34 | Bio and Brain Engineering                               | BiS351       | Biological-Signal Processing                           |                                    |
| 35 | Bio and Brain Engineering                               | BiS352       | Systems Biotechnology                                  |                                    |
| 36 | Bio and Brain Engineering                               | BiS377       | Biomechanics   |                                    |
| 37 | Bio and Brain Engineering                               | BiS432       | Biomedical Statistics                                  |                                    |
| 38 | Bio and Brain Engineering                               | BiS437       | Bio-Data Engineering                                   |                                    |
| 39 | Bio and Brain Engineering                               | BiS438       | Bioinformatics   |                                    |
| 40 | Bio and Brain Engineering                               | BiS470       | BioNano Engineering                                    |                                    |
| 41 | Industrial Design                                       | ID213        | Product Design Fundamentals                            |                                    |
| 42 | Industrial Design                                       | ID216        | Product Design Engineering                             |                                    |
| 43 | Industrial Design                                       | ID301        | Product Design Factors                                 |                                    |
| 44 | Industrial Design                                       | ID303        | Design Methodology                                     |                                    |
| 45 | Industrial Design                                       | ID304        | Product Design Program                                 |                                    |
| 46 | Industrial Design                                       | ID307        | Interface Design                                       |                                    |
| 47 | Industrial Design                                       | ID308        | Interaction Design                                     |                                    |
| 48 | Industrial Design                                       | ID309        | CAD & 3D Modeling                                      |                                    |
| 49 | Industrial Design                                       | ID310        | Information Design                                     |                                    |
| 50 | Industrial Design                                       | ID401        | Theory of New Product Development                      |                                    |
| 51 | Industrial Design                                       | ID403        | Product Design System                                  |                                    |
| 52 | Industrial Design                                       | ID407        | Product-Environment Design                             |                                    |
| 53 | Biological Sciences                                     | BS209        | Molecular Biology                                      |                                    |
| 54 | Biological Sciences                                     | BS223        | Introductory Biotechnology                             |                                    |
| 55 | Biological Sciences                                     | BS357        | Introduction to Neuroscience I                         |                                    |
| 56 | Biological Sciences                                     | BS433        | Molecular Biology of Gene Regulation                   |                                    |
| 57 | Biological Sciences                                     | BS463        | Genetic Engineering                                    |                                    |
| 58 | Chemical and Biomolecular Engineering                   | CBE205       | Chemical and Biomolecular Engineering Analysis         |                                    |
| 59 | Chemical and Biomolecular Engineering                   | CBE260       | Biomolecular Engineering                               |                                    |
| 60 | Chemical and Biomolecular Engineering                   | CBE362       | Bioinformatics   |                                    |
| 61 | Chemical and Biomolecular Engineering                   | CBE471       | Introduction to Environmental Engineering              |                                    |
| 62 | Chemical and Biomolecular Engineering                   | CBE483       | Engineering Principles of Human Physiology             |                                    |
| 63 | Mathematical Sciences                                   | MAS212       | Linear Algebra   |                                    |
| 64 | Mathematical Sciences                                   | MAS241       | Analysis I   |                                    |
| 65 | Mathematical Sciences                                   | MAS242       | Analysis II  |                                    |
| 66 | Mathematical Sciences                                   | MAS270       | Logic and Set Theory                                   |                                    |
| 67 | Mathematical Sciences                                   | MAS275       | Discrete Mathematics                                   |                                    |
| 68 | Mathematical Sciences                                   | MAS311       | Modern Algebra I                                       |                                    |
| 69 | Mathematical Sciences                                   | MAS350       | Elementary Probability Theory                          |                                    |
| 70 | Mathematical Sciences                                   | MAS365       | Introduction to Numerical Analysis                     |                                    |
| 71 | Mathematical Sciences                                   | MAS371       | Introduction to Financial Mathematics                  |                                    |
| 72 | Mathematical Sciences                                   | MAS374       | Optimization Theory                                    |                                    |
| 73 | Mathematical Sciences                                   | MAS410       | Introduction to Cryptography                           |                                    |
| 74 | Mathematical Sciences                                   | MAS472       | Computer Simulations in Financial Mathematics          |                                    |
| 75 | Mathematical Sciences                                   | MAS475       | Combinatorial Theory                                   |                                    |
| 76 | Mathematical Sciences                                   | MAS476       | Game Theory  |                                    |
| 77 | Materials Science & Engineering                         | MS481        | Semiconductor Processing                               |                                    |
| 78 | Materials Science & Engineering                         | MS635        | Semiconductor Integrated Process Design                |                                    |
| 79 | Nuclear and Quantum Engineering                         | NQE201       | Fundamentals of Nuclear and Quantum Sci.               |                                    |
| 80 | Nuclear and Quantum Engineering                         | NQE202       | Introduction to Nuclear Engineering                    |                                    |
| 81 | Nuclear and Quantum Engineering                         | NQE272       | Introduction to Medical Physics                        |                                    |
| 82 | Nuclear and Quantum Engineering                         | NQE281       | Energy, Environment and Water                          |                                    |
| 83 | Electrical Engineering                                  | EE201        | Circuit Theory   |                                    |
| 84 | Electrical Engineering                                  | EE202        | Signals and Systems                                    |                                    |
| 85 | Electrical Engineering                                  | EE203        | Digital System Design                                  |                                    |

|     |   |        |   |                           |
|-----|---|--------|---|---------------------------|
| 86  | Electrical Engineering                      | EE204  | Electromagnetics  |                           |
| 87  | Electrical Engineering                      | EE205  | Data Structures and Algorithms for Electrical Engineering |                           |
| 88  | Electrical Engineering                      | EE206  | Electronic Circuits                                       |                           |
| 89  | Electrical Engineering                      | EE305  | Introduction to electronics design Lab                    |                           |
| 90  | Electrical Engineering                      | EE312  | Introduction to Computer Architecture                     |                           |
| 91  | Electrical Engineering                      | EE321  | Communication Engineering                                 |                           |
| 92  | Electrical Engineering                      | EE324  | Network Programming                                       |                           |
| 93  | Electrical Engineering                      | EE342  | Radio Engineering   |                           |
| 94  | Electrical Engineering                      | EE372  | Digital Electronic Circuits                               |                           |
| 95  | Electrical Engineering                      | EE381  | Control System Engineering                                |                           |
| 96  | Electrical Engineering                      | EE411  | Switching and Automata Theory                             |                           |
| 97  | Electrical Engineering                      | EE414  | Embedded Systems  |                           |
| 98  | Electrical Engineering                      | EE421  | Wireless Communication Systems                            |                           |
| 99  | Computer Science                            | CS204  | Discrete Mathematics                                      |                           |
| 100 | Computer Science                            | CS211  | Digital System and Lab.                                   |                           |
| 101 | Computer Science                            | CS230  | System Programming  |                           |
| 102 | Computer Science                            | CS300  | Introduction to Algorithms                                |                           |
| 103 | Computer Science                            | CS310  | Embedded computer systems                                 |                           |
| 104 | Computer Science                            | CS320  | Programming Language                                      |                           |
| 105 | Computer Science                            | CS322  | Formal Languages and Automata                             |                           |
| 106 | Computer Science                            | CS341  | Introduction to Computer Networks                         |                           |
| 107 | Computer Science                            | CS350  | Introduction to Software Engineering                      |                           |
| 108 | Computer Science                            | CS360  | Introduction to Database                                  |                           |
| 109 | Computer Science                            | CS370  | Symbolic Programming                                      |                           |
| 110 | Computer Science                            | CS376  | Machine Learning  |                           |
| 111 | Computer Science                            | CS380  | Introduction to Computer Graphics                         |                           |
| 112 | Computer Science                            | CS402  | Introduction to Logic for Computer Science                |                           |
| 113 | Computer Science                            | CS440  | Data Communication  |                           |
| 114 | Computer Science                            | CS470  | Introduction to Artificial Intelligence                   |                           |
| 115 | Graduate School of Knowledge Service Engine | KSE521 | Business Intelligence                                     |                           |
| 116 | Graduate School of Knowledge Service Engine | KSE525 | Data Mining and Knowledge Discovery                       | IE646 Substitution (16.8) |
| 117 | Aerospace Engineering                       | MAE230 | Mechanics of Materials                                    |                           |

1. CS206(Data Structure) will be recognized as graduation requirements of elective courses for ISysE Dept. only when students took the course in the fall 2015 or before 2015.  
(However, the spring semester of 2014 is excluded)
2. If students take both of a course and the substitution course, both can NOT be recognized as graduation requirement credits.  
(In the event of typo or misinterpretation, the original text in Korean shall take precedence over the English translation.)