

# Department-specific Guidelines for Double Major and Minor

## 1. Double Major Requirements

If the MR courses in the double major department total 35 or more credits, all MR courses must be completed. If they total fewer than 35 credits, all MR courses must still be completed, along with additional ME courses—including Approved ME Courses Offered by Other Departments (by the student's primary major)—as needed to reach at least 35 credits. Double-counting of credits from the same course toward both the primary major and the double major is permitted.

## 2. Minor Requirements

At least 21 credits must be completed in accordance with the minor requirements of the respective department. Double-counting of credits from the same course toward both the primary major and the minor is not permitted.

Department	Double Major	Minor
Mathematics	<ul style="list-style-type: none"> <li>-Complete at least 35 credits, including 3 credits in MR, 12 credits in DME, and 12 credits in ME offered by the Department.</li> <li>-Fulfill the graduation requirement by either submitting a bachelor's thesis or, at the student's request, taking the graduation qualification exam.</li> <li>-Probability and Statistics, Statistics for Experimental Research, and Basic Engineering Statistics are considered equivalent courses. However, Statistics for Experimental Research and Basic Engineering Statistics are not accepted as DME for either the Mathematics major or minor.</li> </ul>	<ul style="list-style-type: none"> <li>-Complete at least 21 credits, including 3 credits in a MR, 12 credits in DME, and 6 credits in ME.</li> <li>-Probability and Statistics, Statistics for Experimental Research, and Basic Engineering Statistics are considered equivalent courses. However, Statistics for Experimental Research and Basic Engineering Statistics are not accepted as DME for either the Mathematics major or minor.</li> </ul>
Physics	<ul style="list-style-type: none"> <li>Complete more than 38 credits in major courses including:               <ul style="list-style-type: none"> <li>-27 credits in MR</li> <li>-At least 11 credits in ME courses offered by the Department (including Introduction to Quantum Physics and Introduction to Relativity, if desired)</li> <li>-The undergraduate thesis requirement is waived.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Complete at least 21 credits in major courses including:               <ul style="list-style-type: none"> <li>-9 credits in MR: Mechanics, Electromagnetism I, and Quantum Physics I</li> <li>-3 credits in ME: Choose one from Electromagnetism II, Quantum Physics II, or Thermal Physics</li> <li>-9 additional credits: Choose from among MR or ME courses offered by the Department</li> </ul> </li> </ul>
Chemistry	<ul style="list-style-type: none"> <li>Complete at least 35 credits in MR offered by the Department.</li> </ul>	<ul style="list-style-type: none"> <li>Complete at least 21 credits in MR and ME offered by the Department.</li> </ul>
Life Sciences	<ul style="list-style-type: none"> <li>Complete 25 credits in MR and an additional 10 credits in ME designated by the Department.</li> </ul>	<ul style="list-style-type: none"> <li>Complete 9 credits in the following required courses offered by the Department: LIFE217 (Cell Biology), LIFE319 (Biochemistry I), and LIFE321 (Molecular Biology). In addition, complete 12 more credits from MR or ME offered by the Department, for a total of 21 credits.</li> </ul>
Materials Science and Engineering	<ul style="list-style-type: none"> <li>Complete 19 credits in MR and 6 credits in DME, plus additional courses approved as ME, for a total of 35 credits.</li> </ul>	<ul style="list-style-type: none"> <li>Complete 15 credits in MR and two introductory courses (6 credits) from DME, excluding Undergraduate Research I and II, for a total of 21 credits.</li> </ul>
Mechanical Engineering	<ul style="list-style-type: none"> <li>Complete at least 37 credits, including 22 credits in MR, 12 credits in DME, and at least 3 credits in ME.</li> </ul>	<ul style="list-style-type: none"> <li>Complete at least 21 credits in MR and DME.</li> </ul>

## 2025 Department-specific Guidelines for Double Major and Minor

Department	Double Major	Minor
Industrial and Management Engineering	<p>-Complete at least 35 credits, including all 34 credits in MR courses, plus additional credits in ME courses, both offered by the Department.</p> <p>-However, only ME courses offered by the Department are eligible for credit recognition.</p> <p>-IMEN272 (Probability and Statistics for Engineers) may be substituted with MATH230 (Probability and Statistics) or MATH231 (Statistics for Experimental Research).</p>	<p>-Complete at least 21 credits in MR and ME courses offered by the Department.</p> <p>-However, only ME courses offered by the Department are eligible for credit recognition.</p> <p>-IMEN382 (Database System) may be substituted with CSED421 (Databases System).</p> <p>-IMEN272 (Probability and Statistics for Engineers) may be substituted with MATH230 (Probability and Statistics) or MATH231 (Statistics for Experimental Research).</p>
Electronics and Electrical Engineering	<p>-MR: 34 credits</p> <p>-ME: 1 credit from ME courses offered by the Department, as well as from the approved ME courses, STC courses, and MR courses offered by other departments</p> <p>[Course Substitutions] CSED273 Digital System Design may be substituted for EECE274 Digital System Design; CSED311 Computer Architecture may be substituted for EECE375 Computer Design; CSED211 Introduction to Computer SW systems may be substituted for EECE372 Microprocessor Architecture and Applications; and PHYS206 Electromagnetism I may be substituted for EECE261 Electromagnetics.</p>	<p>-MR: 15 credits in the following courses: EECE231 Basic Circuit Theory, EECE233 Signals and Systems, EECE261 Electromagnetics, EECE274 Digital System Design, and EECE331 Electronic Circuits I</p> <p>-ME: 6 credits (from courses offered by the Department, as well as the approved ME courses, STC courses, and MR courses offered by other departments)</p> <p>[Course Substitutions] CSED273 Digital System Design may be substituted for EECE274 Digital System Design; CSED311 Computer Architecture may be substituted for EECE375 Computer Design; CSED211 Introduction to Computer SW systems may be substituted for EECE372 Microprocessor Architecture and Applications; and PHYS206 Electromagnetism I may be substituted for EECE261 Electromagnetics.</p>
Computer Science and Engineering	<p>Complete all MR courses, at least 6 credits in DME courses, and a minimum of 35 total credits including ME courses.</p> <p>[Course Substitution] EECE274 Digital System Design may be substituted for CSED273 Digital System Design offered by the Department; and EECE375 Computer Design may be substituted for CSED311 Computer Architecture.</p>	<p>Complete at least 15 credits in MR courses and at least 6 credits in DME courses, for a total of at least 21 credits.</p>
Chemical Engineering	<p>Complete all MR courses in the Department (30 credits) as well as at least 5 additional credits in the Department's ME courses.</p>	<p>-MR: 9 credits in CHEB204 Chemical Engineering Thermodynamics, CHEB305 Reaction Engineering, and CHEB417 Transport Phenomena</p> <p>-12 additional credits in 300-level or higher courses offered by the Department.</p>
IT Convergence Engineering	<p>-Students enrolled in 2022 or earlier: 32 credits in all MR courses and 3 credits in ME for a total of 35 credits</p> <p>-Students enrolled in 2023 or later: 23 credits in all MR courses and 12 credits in ME for a total of 35 credits</p>	<p>-Students enrolled in 2022 or earlier: 24 credits including 21 credits in 창의IT설계 Level I-IV (CITE201, CITE202, CITE301, and CITE302) and 3 credits in the Creative Studio course group (CITE203, CITE303, CITE304, CITE306, and CITE405)</p> <p>-Students enrolled in 2023 or later: 24 credits including 15 credits in (CITE201, CITE202, and CITE301); 3 credits in the Creative Studio course group (CITE203, CITE303, CITE304, CITE306, and CITE405); and additional ME credits as needed.</p>
Semiconductor or Engineering	<p>Complete all 26 credits in MR and 9 credits in ME, for a total of at least 35 credits.</p>	<p>Complete 15 credits in MR and 6 credits in ME, for a total of at least 21 credits.</p>

### 3. Interdisciplinary Double Major Requirements

At least 35 credits must be completed in accordance with the interdisciplinary double major

requirements. Double-counting of credits from the same course toward both the primary major and the interdisciplinary double major is permitted.

#### 4. Interdisciplinary Minor Requirements

At least 21 credits must be completed in accordance with the interdisciplinary minor requirements. Double-counting of credits from the same course toward both the primary major and the interdisciplinary minor is permitted.

Discipline	Double Major	Minor
Entrepreneurship	-	<p>(Credits may be double-counted toward graduation requirements for the primary major or double major.)</p> <p><b>-Requirements (9 credits) :</b>  ENTP201 (IMEN411) Entrepreneurship (3)  ENTP301 (IMEN412) Action Learning in Business Planning (3) or CITE411 Creative Entrepreneurship in Action (3)  ENTP491 Entrepreneurship Seminar (1), ENTP492 Action Learning in Business Planning (2)</p> <p><b>-Electives (12 credits):</b>  IMEN203 Financial Accounting (3), IMEN301 Technology Management &amp; Strategy (3), IMEN302 Principles of Business Administration (3), IMEN303 Marketing (3), IMEN304 Strategic Management (3), IMEN305 Organizational Behavior (3), IMEN400 Emerging Technology &amp; Innovation (Varied Credits), IMEN371 Quality Management (3), IMEN422 Supply Chain Management (3), IMEN423 Product Lifecycle Engineering (3), IMEN462 Pricing and Revenue Management (3), IMEN482 Introduction to Service Science, Management, and Engineering(SSME) (3), IMEN487 Corporate Finance (3)</p> <p>CMEF301 Principles of Economics (3), CMEF303 Macroeconomics (3), CMEF304 Financial Economics (3), CMEF305 Financial Management (3), CMEF402 Money and Banking (3), CMEF405 Introduction to Fixed Income Markets (3), CMEF407 Industrial Organization (3), CMEF411 Market Design (3)</p> <p>SOSC354 Interpersonal Communication (3), SOSC451 Persuasion Strategy and Attitude Change (3), SOSC459 Special Topics in Communication (3)</p> <p>ENTP493 Entrepreneurship Special Lecture (Varied Credits), ENTP451A-Z Emerging Industry (Varied Credits), ENTP461 Introduction to Makers (2)</p> <p>CITE203 Interaction Design (3), CITE211 Human Resource Theory (2), CITE212 Technology Financing (2), CITE213 Technology Marketing (2), CITE214 Innovation Economics (3), CITE215 Introduction to Makers (3), CITE303 Life Sensibility &amp; Transhuman Contents (3), CITE306 Business Model Studio (3), CITE311 Technology Innovation and Industrialization (3), CITE312 Entrepreneurship (2)</p> <p>INTN301 Tech+ Innovation, INTN302 Tech+ Star</p>
Convergence Civilization	-	<p>*Each student may choose and complete only one interdisciplinary minor from among Convergence Civilization, Science and Technology Studies, and Economics and Finance.  *Any three courses (totalling 9 credits) from the interdisciplinary minor may also be double-counted toward GEE.</p> <p><b>21 credits (may be completed without distinction between basic and advanced courses)</b></p> <p><b>1) Basic Courses</b>  CMCC301 Cosmopolitanism and Narrative Imagination (3), CMCC302 Watershed Moments in the History of Global Civilizations (3), CMCC303 Posthuman and Transhumanism (3), CMCC304 The Origin of Images and Visual Literacy (3), CMCC305 Digital Media Literacy (3), CMCC307 Emerging Social Issues and Data Analysis (3), CMCC399 Special Topics in Convergence Civilization(Basic) (3)</p> <p><b>2) Advanced Courses</b>  CMCC401 Posthuman and Science Fiction (3), CMCC402 Culture Contents and Digital Storytelling (3), CMCC405 History of Sea and Civilization (3), CMCC408 Art, Science, and Technology (3), CMCC409 Evolution and Human Society (3), CMCC410 Development of Global Civilization and Korean Society (3), CMCC412 Risk Society and Communications (3), CMCC413 Artificial Intelligence and Law (3), CMCC499 Special Topics in Convergence Civilization(Advanced) (3)  CMST405 Art and Science (3)  CITE303 Life Sensibility &amp; Transhuman Contents (3)</p>

Discipline	Double Major	Minor
Science and Technology Studies	-	<p>*Each student may choose and complete only one interdisciplinary minor from among Convergence Civilization, Science and Technology Studies, and Economics and Finance. *Any three courses (totaling 9 credits) from the interdisciplinary minor may also be counted toward GEE.</p> <p><b>21 credits (may be completed without distinction between basic and advanced courses)</b></p> <p><b>1) Basic Courses – 12 credits (4 courses)</b>            CMST301 Logic and Critical Thinking (3), CMST302 History of Science (3), CMST303 Philosophy of Science (3), CMST304 Science Technology Studies (3), CMST305 Sociology of Science (3), CMST306 Modern Society and Science (3)            CMCC303 Posthuman and Transhumanism (3)            CONF319 Special Topics in Confluence (3)</p> <p><b>2) Advanced Courses – 9 credits (3 courses)</b>            CMST401 Policy for Science and Technology (3), CMST402 Science Communication (3), CMST403 History of Science and Technology in Korea (3), CMST404 History of Science and Technology in East Asia (3), CMST405 Art and Science (3), CMST406 Philosophy of Spacetime and Matter (3), CMST408 Body and Technology (3), CMST499 Special Topics in Science and Technology Studies (3)            CMCC401 Posthuman and Science Fiction (3), CMCC408 Art, Science, and Technology (3), CMCC409 Evolution and Human Society (3), CMCC412 Risk Society and Communications (3)            PHYS360 Pioneers in Physics (3)</p>
Economics and Finance	-	<p>*Each student may choose and complete only one interdisciplinary minor from among Convergence Civilization, Science and Technology Studies, and Economics and Finance. *Any three courses (totaling 9 credits) from the interdisciplinary minor may also be counted toward GEE.</p> <p><b>21 credits (15 from Basic Courses + 6 from Advanced Courses)</b></p> <p><b>1) Basic Courses – 15 credits (5 courses)</b>            CMEF301 Principles of Economics (3), CMEF302 Microeconomics (3), CMEF303 Macroeconomics (3), CMEF304 Financial Economics (3), CMEF305 Financial Management (3)</p> <p><b>2) Advanced Courses – 6 credits (2 courses)</b>            CMEF401 Econometrics (3), CMEF402 Money and Banking (3), CMEF405 Introduction to Fixed Income Markets (3), CMEF406 Game Theory (3), CMEF407 Industrial Organization (3), CMEF408 Economics of Information (3), CMEF409 Law and Economics (3), CMEF410 Political Economy (3), CMEF411 Market Design (3), CMEF412 Social Networks (3), CMEF414 Behavioral-Experimental Economics (3), CMEF499 Special Topics in Economics (3)            IMEN388 Investment (3), IMEN487 Corporate Finance (3)</p>
Next-Generation Communications and Networks	-	<p><b>21 credits (MR 12 + ME 9)</b></p> <p><b>1. MR – 12 credits</b>            -The course Introduction to Communications and Network (3-0-3) is required.            -At least three DME courses (9 credits) must be completed, including:            at least one from among Algorithms, Software Design Methods, Computer Networks;            and at least one from among Mathematics for Electronics and Electrical Engineers A, Introduction to Communication Systems, Introduction to Digital Communication.            -Courses Available:            NGCN301 Introduction to Communications and Network            CSED331 Algorithms, CSED332 Software Design Methods, CSED353 Computer Networks            EECE302 Mathematics for Electronics and Electrical Engineers A, EECE341 Introduction to Communication Systems, EECE441 Introduction to Digital Communication</p> <p><b>2. ME – 9 credits</b>            -Courses Available:            NGCN302 Laboratory for Communications and Network            CSED342 Artificial Intelligence, CSED352 Data Communications, CSED415 Computer Security, CSED416 Peer-to-peer Networking, CSED417 Internet of Things, CSED500 Advanced Linear Algebra for CSE, CSED505 Network Performance Analysis, CSED530 Advanced Probability Theory for CSE            EECE361 Electromagnetic Waves, EECE414 Microelectronics 3B: RF/Analog Circuits, EECE451 Introduction to Digital Signal Processing, EECE574 Probability and Stochastic Process, EECE575 Communication and Sensing Systems, EECE576 Statistical Communication Theory, EECE577 Information Theory, EECE578 Digital Communication, EECE579 Information and Communication Security, EECE581 Digital Signal Processing, EECE582 Error-Correcting Codes, EECE583 Advanced Linear Algebra, EECE589 Modern Coding Theory            MATH430 Theory of Mathematical Statistics, MATH448 Introduction to Coding Theory, MATH449 Introduction to Cryptography, MATH565 Coding Theory, MATH567 Algebraic Cryptology            IMEN561 Network Flows</p> <p>Note: Up to 9 credits (3 courses) from major courses offered by the Department of Computer Science and Engineering and the Department of Electronics and Electrical Engineering, designated as part of the interdisciplinary minor, may also be counted toward this minor.</p>

Discipline	Double Major	Minor
Environment	-	<p><b>21 credits (12 credits in courses offered by the Division of Environmental Science and Engineering + 9 credits in courses offered by other departments)</b>            *Credits may overlap with the graduation requirements of the primary or double major.</p> <p><b>1. 12 credits in courses offered by the Division of Environmental Science and Engineering:</b>            EVSE101 Introduction to Environmental Science, EVSE202 Understanding Climate Change, EVSE490A Special Topics: Air Pollution and Mitigation Technologies, EVSE490B Special Topics: Ecology and Environment, EVSE490C Special Topics: Water Environment and Society, EVSE490D Special Topics: Environmental Monitoring and Practicum, EVSE579 Environmental Statistics            INGE101 Modern Civilization and Environmental Technology</p> <p><b>2. 9 credits in courses offered by other departments:</b>            CMEF499A Special Topics: Evolution Models of Future Enterprises, Corporate Citizenship            MATH200 Differential Equations, MATH230/MATH231 Probability and Statistics/Statistics for Experimental Research            CHEM221 Organic Chemistry I, CHEM231 Introduction to Nanochemistry, CHEM243 Chemical Analysis, CHEM261 Chemistry for Medicine &amp; Life            LIFE217 Cell Biology, LIFE219 Convergence of Biology and Engineering            MECH250 Thermodynamics            CHEB208 Fundamentals in Engineering Biology, CHEB214 Energy and Environmental Engineering</p>
Eco-Friendly Energy Materials	-	<p><b>21 credits</b>            *Credits may overlap with the graduation requirements of the primary or double major.</p> <p><b>1. Required Courses – 6 credits</b>            CHEB412 Chemical Processes in Secondary Batteries (3), AMSE414 Energy Materials (3)</p> <p><b>2. Elective Courses – 15 credits (Choose from the list below to fulfill 15 credits)</b>            CHEB202 Physical Chemistry for Chemical Engineering II (3), CHEB212 Physical Chemical Laboratory (2), CHEB214 Energy and Environmental Engineering (3), CHEB301 Chemical Engineering Programming and AI (3), CHEB305 Reaction Engineering (3), CHEB314 Introduction to Molecular and Surface Engineering (3), CHEB315 Smart Soft Materials Engineering (3), CHEB413 Introduction to Energy and Environmental Material Analysis (3), CHEB417 Transport Phenomena (3), CHEB427 Chemical Engineering Capstone Design (3), CHEB465 Structure and Properties of Polymers (3), CHEB469Y Special Topics: Quantum Chemistry for Chemical Engineering (3), CHEB469Z Introduction to Organic Soft Materials (3), CHEB469A Special Topics: Eco-Friendly Energy Materials – Basics of Secondary Batteries (1), CHEB469B Special Topics: Eco-Friendly Energy Materials – Hydrogen Production (1), CHEB469C Special Topics: Eco-Friendly Energy Materials – Biosystems (1), CHEB562 Carbon-Based Materials for Batteries (3), CHEB563 Advanced Hydrogen Energy (3)</p> <p>CHEM311 Physical Chemistry II (3), CHEM314 Physical Chemistry and Instrumental Analysis Laboratory (4), CHEM325 Synthesis Laboratory (2), CHEM331 Inorganic Chemistry (4), CHEM342 Instrumental Analysis (3), CHEM451 Macromolecular Chemistry (3), CHEM481B Special Topics in Chemistry B – Spectroscopic Analysis and Capstone Design (3), CHEM481D Special Topics in Chemistry D – Industry-Academia Collaboration Colloquium on the Chemical Innovations (1), CHEM531 Advanced Inorganic Chemistry I (3), CHEM621 Organometallic Chemistry (3)</p> <p>AMSE313 Physics of Materials (3), AMSE341 Introduction to Ceramics (3), AMSE344 Ceramics Design and Laboratory (3), AMSE361 Introduction to Polymers (3), AMSE412 Nanoscience and Technology (3), AMSE513 Electrochemistry for Energy Applications (3)</p> <p>GIFT518 Intro to battery system (3), GIFT761 Active materials for lithium-ion (3), GIFT762 Energy Storage System and Design (3), GIFT769 Advanced Battery Science (3), GIFT770 Analytical techniques for nano (3)</p>

Discipline	Double Major	Interdisciplinary Minor
Synthetic Biology	<p><b>35 credits or more</b> (Credits may overlap with the graduation requirements of the primary or double major.)</p>	<p><b>21 credits or more</b> (Credits may overlap with the graduation requirements of the primary or double major.)</p>
	<p><b>1. Required Courses</b> At least one course must be completed in each of three different areas from the list below:</p> <p><b>[Physics and Chemistry]</b> CHEM221 Organic Chemistry I (3), CHEB206 Organic Chemistry for Chemical Engineers I (3)</p> <p><b>[Life Sciences]</b> CHEM461 Biochemistry (3), LIFE319 Biochemistry I (3), LIFE321 Molecular Biology (3)</p> <p><b>[Mathematical Sciences]</b> MATH200 Differential Equations (3), MATH203 Applied Linear Algebra (3)</p> <p><b>[Applied Chemistry and Materials Engineering]</b> AMSE207 Materials Chemistry (3), CHEB208 Fundamentals in Engineering Biology (3)</p> <p><b>2. Elective Courses</b> At least one course must be completed in each of three different areas from the list below:</p> <p><b>[Physics and Chemistry]</b> PHYS312 Computers for Physics (3), PHYS413 Biological Physics (3), CHEM261 Chemistry for Medicine &amp; Life (3), CHEB207 Organic Chemistry for Chemical Engineers II (3)</p> <p><b>[Life Sciences]</b> LIFE217 Cell Biology (3), LIFE219 Convergence of Biology and Engineering (3), LIFE320 Biochemistry II (3), LIFE325 Biotechnology (3), LIFE414 Systems Biology (3), LIFE619 Bioinformatics (3)</p> <p><b>[Mathematical Sciences]</b> MATH230 Probability and Statistics (3), MATH231 Statistics for Experimental Research (3), MATH313 Introduction to Partial Differential Equations (3), MATH351 Introduction to Numerical Analysis (3), IMEN260 Operations Research I (3), IMEN272 Probability and Statistics for Engineers (3) (MATH230, MATH231, and IMEN272 are recognized as equivalent courses.)</p> <p><b>[Applied Chemistry and Materials Engineering]</b> AMSE201 Fundamentals of Materials Science and Engineering (3), AMSE361 Introduction to Polymers (3), AMSE407 Instrumental Analysis of Materials (3), AMSE412 Nanoscience and Nanotechnology (3), AMSE416 Biomaterials (3), AMSE464 Physical Properties and Applications of Polymers (3) CHEB213 Engineering Biology Laboratory (2), CHEB216 Chemical Engineering Laboratory (3), CHEB301 Chemical Engineering Programming and AI (3), CHEB308 Introduction to Biotechnology (3), CHEB409 Introduction to Synthetic Biology (3), CHEB417 Transport Phenomena (3), CHEB418 Energy &amp; Mass Transfer (3), CHEB469D Bioengineering Basics (3), CHEB313 Introduction to Colloid and Interfacial Phenomena (3), CHEB469A System biochemistry (3)</p>	

Discipline	Double Major	Interdisciplinary Minor
Biomedical Engineering	<p><b>35 credits or more</b> (Credits may overlap with the graduation requirements of the primary or double major.)</p>	<p><b>21 credits or more</b> (Credits may overlap with the graduation requirements of the primary or double major.)</p>
	<p><b>1. Required Courses</b> 3 courses (12 credits) required</p> <p><b>[Biomedical Engineering]</b> CITE241 Introduction to Biomedical Engineering (3)</p> <p><b>[Convergence Design]</b> CITE201 Convergence IT Design I : Fundamentals (3), CITE202 Convergence IT Design II : Basic Design (6)</p> <p><b>2. Elective Courses</b> At least one course must be completed in each of three different areas from the list below:</p> <p><b>[Biomedical Engineering]</b> CITE451 Biomaterials and Biofabrication Methods (3), CITE452 Bioelectronic Devices: Engineering for Diagnostics and Therapeutics (3), CITE453 Biological Systems and Signal Processing (3), CITE490C Introduction to Medicine (3), CITE490J Special Topics: Fundamentals of Clinical Pathology (3)</p> <p><b>[Life Sciences and Chemistry]</b> LIFE216 Physiology (3), LIFE217 Cell Biology (3), LIFE220 Introduction of Biomedical Science (3), LIFE414 Systems Biology (3), LIFE419 An Introduction to Brain and Behavior (3) CITE390B Clinical Anatomy and Physiology for Science and Engineering (3) CHEM261 Chemistry for Medicine &amp; Life (3), CHEM461 Biochemistry (3), CHEM481B Biomedical Chemistry (3)</p> <p><b>[Mechanical and Materials Engineering Applications]</b> MECH280 Sensors and Measurements (3), MECH330 Materials Processing (3), MECH244 Mechanical Behaviors and Processing of Materials (3), MECH528 Human-Robot Interface (3), MECH427 Optics and Microscopy (3) AMSE416 Biomaterials (3)</p> <p><b>[Convergence Design]</b> CITE301 Convergence IT DesignIII: Advanced Design (6), CITE302 IT Convergence Capstone DesignIV: System Integration (6)</p>	