Fall semester: August 2018~January 2019

| | Course Code | E / C | SUBJECT | Crt. | Grade | 1 Semes. | 2Semes. | | Course Code | E / C | SUBJECT | Crt. | Grade | 1 Semes. | 2Semes. |
|-----------------------|------------------|-------------|-------------------------------------|------|-------|----------|---------|---------|----------------|-------|--|------|-------|----------|---------|
| Compulsory Courses | CED627 | | Seminar | 4 | 1, 2 | 1 | 1 | Profess | CEM180 | Е | Principles and Applications of Adsorption Process | 3 | 1 | 3 | |
| | CED001 CED002 | | English Technical Writing (1)(2) | 2 | 1 | 1 | 1 | essi | CEM161 | E | Enzymes and Cell Immobilization | 3 | 1 | 3 | |
| | | | | | | | | iona | CEM131 | Е | Polymer Structure and Physical Properties | 3 | 1 | 3 | |
| | | | | | | | | 1 E) | CEM201 | Е | Instrumental Analysis Special Topics | 3 | 1 | 3 | |
| | | | | | | | | ectiv | CEM101 | E | Air Pollution Control Theory and Design | 3 | 1 | 3 | |
| Core Elective Courses | CEM030 | Е | Advanced Reaction Engineering | 3 | 1 | 3 | | ve C | CEM350 | Е | Particulate Engineering | 3 | 1 | 3 | |
| | CEM052 | Е | Advanced Transport Phenomena(1) | 3 | 1 | 3 | | Cours | CEM153 | Е | Membrane Technology | 3 | 1 | 3 | |
| | CEM120 | Е | Advanced Organic Materials | 3 | 1 | | 3 | es | CEM080 | Е | Opto-Polymers & Their Application | 3 | 1 | 3 | |
| | CEM060 | Е | Advanced Transport Phenomena(2) | 3 | 1 | | 3 | | CEM740 | Е | Special Topics in Advanced Electrochemistry | 3 | 1 | 3 | |
| | CEM220 | Е | Advanced Process Engineering | 3 | 1 | | 3 | | CED008 | Е | Clinical Applications of Biomedical Engineering and Materials | 3 | 1 | 3 | |
| | CEM123 | Е | Advanced Inorganic Materials | 3 | 1 | 3 | | | | | | | | | |
| | CEM270 | Е | Advanced Thermodynamics | 3 | 1 | | 3 | | | | | | | | |
| | BEM121 | Е | Biochemical Engineering | 3 | 1 | | 3 | | | | | | | | |
| | BEM122 | Е | Biomedical Engineering | 3 | 1 | | 3 | | CED005 | Е | Applied Industrial Microbiology | 3 | 1 | 3 | |
| | | | | | | | | | CED007 | Е | Tissue Engineering | 3 | 1 | 3 | |
| | | | | | | | | | CEM016 | Е | Theory and Design of Wastewater Treatment | 3 | 1 | | 3 |
| | | | | | | | | | CEM540 | E | Bioreactor | 3 | 1 | | 3 |
| | | | | | | | | | CEM452 | Е | Polymer Blends | 3 | 1 | | 3 |
| | | | | | | | | | CEM21Y | Е | Design of Experiments | 3 | 1 | | 3 |
| | | | | | | | | | CEM454 | Е | Thin Film Processing | 3 | 1 | | 3 |
| | | | | | | | | | CEM256 | Е | Battery and Energy Conversion | 3 | 1 | | 3 |
| | | | | | | | | | CEM520 | Е | Functional Polymers | 3 | 1 | | 3 |
| | | | | | | | | | CEM760 | Е | R&D and Patents Practice | 3 | 1 | | 3 |
| | | | | | | | | | CEM091 | Е | Solid State Chemistry | 3 | 1 | | 3 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Remarks

- 1 At least 30 credit hours are required to receive Ph.D. degree : 12 credit hours from the required courses (including 6 credit hours of Thesis) and 9 credit hours of core elective courses.
- 2 Max. of 6 credit hours outside of CME Department and Biomed Graduate Institutes are counted for graduation requirement.
- 3 Students have to take least 3 courses from 9 core elective courses.
- 4 Ph.D. students must take the compulsory Seminar course in the first year and second year (total 4 credit hours).
- 5 All graduate students must pass/meet the English proficiency test/requirement as outlined in "English Proficiency Assessment for Foreign Students, College of Engineering, Chang Gung University".
- 6 International students may take elective courses in English and provided by the departments /graduate institutes of CGU toward graduation requirement or graduation requirement of core elective courses, within the caps of 12 credit hours for M.S. students and 9 credit hours for Ph.D. students. These courses are subject to review by advisor and graduate student affairs committee. This applies to the international students admitted through the international student admission
- 7 E:Elective / C:Compulsory

| 所長簽章: | 2019/12/13 |
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