## B. Eng. in Bioengineering Curriculum Structure

**Cohort Year 2022**

### Electives [15]
- At least 9 credits from 1 chosen specialization area
- At least 9 credits at 4000-level or above

### Legend
- **Prerequisite**
- **Corequisite**
- Fall Offering
- Spring Offering
- Offering in both semesters

### Credits
- **MATH 1012/1013/1023** Calculus I [3]
- **MATH 1014/1024** Calculus II [3]
- **MATH 1020** Accel. Calculus [4]
- **PHYS 1112/1312** General Physics I [3]
- **CHEM 1020 + 1050** General Chemistry I + Lab [4]
- **LIFS 1901** General Biology I [3]
- **COMP 1021** Intro. Comp. Sci. [3]
- **CENG 1000** Intro. CBE [3]
- **BIEN 1010** Intro. BME [3]
- **ENGG 1010** SENG Acad. Orientation [0]
- **BIEN 2610** Chem. Biology [3]
- **BIEN 2410** Cell. Sys. Physiology [3]
- **BIEN 2310** Modeling for CBE [3]
- **CENG 2210** Thermodynamics
- **CENG 2220** Transport I [3]
- **BIEN 3910** BIEN Lab [4]
- **BIEN 3410** Bioimaging & Bioinstr. [3]
- **LANG 4035** Tech. Comm. II [3]

### Specializations
- **Biological Systems**
- **Engineering Systems**
- **Computational Systems**

### Prerequisites and Corequisites
- **MATH 2411 / LIFS 3150 / BIEN 3300** Statistics [3-4]
- **BIEN 2010** Engg. Seminars [0]
- **ENGG 2010** Engg. Seminars [0]
- **CENG 3230** Reaction Engineering [3]
- **BIEN 2990** BIEN Acad. Pro. Dev. I [1]
- **BIEN 4920** Capstone Design [6]
- **BIEN 4930** Thesis Research [6]
- **BIEN 4940** Industrial Project [6]

### Notes
1. Students who have taken COMP1022P/2011 instead are required to take COMP1029P.
2. LIFS 1901 is waived for those who have HKDSE 1x Biology.
3. Prior credit-bearing research experience and instructor’s consent required.

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**Prefer version [BIEN3310]**

**Offer every other Fall**