Training requirements for CCBM Fellows:

All 3 Training modules –

a. Imaging and Spectroscopy
b. Nano-bio Fabrication
c. Computation and Modeling

Coursework:
Required coursework as specified by your graduate group.
In addition a total of 6 units of electives from among the following UCM and Outside courses.
Note that if a course is required by your graduate group it cannot be used to satisfy an elective requirement for CCBM.
A course that is not on this list may be considered for use as an elective on a case-by-case basis. Please contact your advisor and Prof. Gopinathan for approval.

Outside UCM Courses (note that more will be added to this list as options grow):

- **BMSE 201A: Protein Structure and Function**
- **BMSE 201B: Chemistry & Structure of Nucleic Acids**
- **BMSE 201C: Biomembranes Structure & Function**
- **BMSE 215: Biophysical Thermodynnamics**
- **BMSE 217: Electrostatics of Biopolymers**
- **BMSE 250: Bionanotechnology**
- **BMSE 271: Mechanical Force and Biomolecules**
- **BMSE 276A: Biomolecular Materials I: Structure and Function**
- **BMSE 276B: Biomolecular Materials II**
- **BMSE 293: Computational Methods Biochemistry & Molecular Biology**

| Graduate Group | BioEngineering and Material Science and Engineering | Chemistry and Chemical Biology | Physics |
|---|---|---|---|
| **UCM Elective Courses** | ▪ **BEST 240**: Biomolecular Engineering<br>▪ **BEST 214**: Tissue Engineering and Design<br>▪ **BEST 211**: Synthetic Biology (EBICS)<br>▪ **BEST 299**: Cell as a Machine (EBICS) | ▪ **CHEM 214 or PHYS 212**: Statistical Mechanics<br>▪ **CHEM 216**: Interfacial & Surface Chemistry | ▪ **PHYS 209:** Soft Matter Physics<br>▪ **PHYS 204:** Biophysics |