

Department Specific Mandatory Courses for Minor Degree

In order to obtain a minor degree in any discipline, a student has to obtain a minimum of 24 credits (which could be earned from courses of 18 credits and a project in a minor discipline of 6 credits) from that Department. The minor degree(s) will be mentioned in the final Degree Certificates (in addition to the transcripts). The department specific additional requirements are listed below:

Department of Biological Sciences: The following four courses are mandatory. The remaining credit requirements can be satisfied by taking any departmental courses offered in the third year and above.

BIO 301: Cell Biology (3)
BIO 303: Biochemistry (3)
BIO 304: Molecular Biology (3)
BIO 414: Ecology (3)

Department of Chemical Sciences: A student must take a minimum of three courses out of the six courses listed below: The remaining credit requirements can be satisfied by project and taking any other departmental courses offered in the third year and above.

CHM 301: Symmetry and Group Theory (4)
CHM 311: Organic Chemistry I (4)
CHM 321: Physical Chemistry of Solutions (4)
CHM 302: Chemistry of Transition Metals (4)
CHM 312: Organic Chemistry II (4)
CHM 322: Principles of Quantum Chemistry (4)

Department of Mathematical Sciences: A student must take at least three 300-level courses and at least one 400-level course from the below mentioned list. The remaining two courses can be any mathematics courses offered in the third year and above.

300-level

MTH 301: Groups and Rings (4)
MTH 303: Real Analysis I (4)
MTH 304: Metric Spaces and Topology (4)
MTH 306: Ordinary Differential Equations (4)
MTH 311: Advanced Linear Algebra (4)

400-level

MTH 403: Real Analysis II (4)
MTH 405: Partial Differential Equations (4)
MTH 406: Differential Geometry of Curves and Surfaces (4)
MTH 407: Complex Analysis I (4)

Department of Physical Sciences: A minimum of 3 courses are to be credited from the list of courses as mentioned under Group 1. The remaining credit requirements can be satisfied by project and taking any other courses from the list as mentioned under Group 1 and 2.

Group 1

PHY 303: Quantum Mechanics-I (4)
PHY 301: Mathematical Methods-I (4)
PHY 305: Classical Mechanics (4)
PHY 401: Electrodynamics (4)
PHY 309: Thermal Physics (4)

Group 2

PHY 403: Condensed Matter Physics (4)
PHY 304: Quantum Mechanics-II (4)
PHY 302: Mathematical Methods-II (4)
PHY 404: Nuclear and Particle Physics (4)
PHY 407: Atomic and Molecular Physics (4)
PHY 306: Statistical Mechanics (4)