

## ***NATURAL SCIENCES REQUIREMENT***

Some majors at LTU specify *Natural Science 1*, *Natural Science 2*, and *Natural Science Lab* as required courses. To satisfy the Natural Science lecture course requirement for these majors, *any two* of the courses listed below may be taken. All prerequisites and co-requisites must be satisfied. Well-prepared students may substitute higher-level science courses for those listed below. Students with Undeclared major should consult with an advisor to determine which courses best fit their academic and career plans.

<b>Course</b>	<b>Course Name</b>	<b>Prerequisite or Co-requisite*</b>
BIO1153	Introduction to Biological Principles	None
BIO1213 <sup>1</sup>	Biology 1	BIO1153 or biology placement
BIO1223 <sup>1</sup>	Biology 2	BIO1153 or biology placement
BIO2313	Microbiology	BIO1213
CHM1154 <sup>2</sup>	Introduction to Chemical Principles	MCS0054* or higher <sup>3</sup>
CHM1213	University Chemistry 1	MCS1074* or higher <sup>3</sup> plus CHM1154 or chemistry placement
CHM1223	University Chemistry 2	CHM1213
CHM2103	General, Organic and Biochemistry	BIO1213 + CHM1213
CHM2313	Organic Chemistry 1	CHM1213 + CHM1221
FSC1214 <sup>2</sup>	Forensic Science	None
GLG1103	Geology	None
PHY1154 <sup>2</sup>	Introduction to Physical Principles	MCS1074 or higher <sup>3</sup>
PHY1213	Introductory Astronomy	None
PHY2213	College Physics 1	MCS1074 or higher <sup>3</sup> plus PHY1154 or physics placement
PHY2223	College Physics 2	PHY2213
PHY2413	University Physics 1	MCS1424*, plus PHY1154 or physics placement
PHY2423	University Physics 2	PHY2413 and MCS2414*
PSC1143	Environmental Science & Sustainability	None

<sup>1</sup>BIO1213 and BIO1223 are independent courses. Neither is prerequisite to the other.

<sup>2</sup>CHM1154, FSC1214 and PHY1154 have laboratory components that satisfy the requirement for a laboratory course as well as that for a Natural Sciences lecture course.

<sup>3</sup>MCS1254 excluded

To satisfy the Natural Science laboratory requirement, *any one* of the courses listed below may be taken. All prerequisites and co-requisites must be satisfied.

<b>Course</b>	<b>Course Name</b>	<b>Co-requisite Lecture</b>
BIO1221	Biology 1 Laboratory	BIO1213 or BIO1153
BIO1231	Biology 2 Laboratory	BIO1223
BIO2321	Microbiology Laboratory	BIO2313
CHM1154	Introduction to Chemical Principles	See note 2 above
CHM1221	University Chemistry 1 Laboratory	CHM1213
CHM2101	General, Organic and Biochemistry Laboratory	CHM2103
CHM2311	Organic Chemistry 1 Laboratory	CHM2313
FSC1214	Forensic Science	See note 2 above
PHY1154	Introduction to Physical Principles	See note 2 above
PHY1221	Astronomy Laboratory	PHY1213
PHY2221	College Physics 1 Laboratory	PHY2213
PHY2231	College Physics 2 Laboratory	PHY2223
PHY2421	University Physics 1 Laboratory	PHY2413
PHY2431	University Physics 2 Laboratory	PHY2423