

Science Middle Grades Course Equivalency Guide

COMPETENCY	LU ONLINE Course Options	<p style="text-align: center;">Available Courses from: Straighterline Study.com Sophia Learning</p> <p style="text-align: center;">https://www.liberty.edu/online/transfer-partnerships/</p>	<p style="text-align: center;">Available College Level Exams: CLEP or DSST/Dantes</p> <p style="text-align: center;"><small>*all exams are 3 credit hours each unless noted otherwise. Exams <u>do not include</u> Labs. Labs must be completed separately to fulfill the requirement.</small></p>
<p>Science: 21 minimum hours are required per the VDOE and Liberty’s School of Education. The 21 hours must be spread throughout the 5 sections below. One course must be taken in each section to fulfill the required competency.</p>			
Biology	<p style="text-align: center;">Science Lecture Options: BIOL 101/ Principles of Biology BIOL 102/Principles of Human Biology</p>	<p style="text-align: center;">Straighterline: BIO 101/Intro to Biology BIO 201/Anatomy & Physiology I BIO 202/Anatomy & Physiology II BIO 250/Microbiology</p> <p style="text-align: center;">Study.com: Biology 101/Intro to Biology Biology 101L/Intro to Biology w/Lab (4 hours) Biology 102/Basic Genetics Biology 103/Microbiology Biology 105/Anatomy & Physiology Biology 201L/Anat & Phys I w/Lab (4 hours) Biology 202L/Anat & Phys II w/Lab (4 hours) Genetics 101/Intro to Genetics</p> <p style="text-align: center;">Sophia Learning: HumBio 1001/Human Biology SCIE 1050/Anatomy & Physiology</p>	<p style="text-align: center;">CLEP Exams accepted: Biology *Natural Sciences</p> <p style="text-align: center;">*(3 hours Biology & 3-hours Physics)</p>
Chemistry	<p style="text-align: center;">At this time, Liberty’s Chemistry courses are only offered Residentially. When online courses are available, this guide will be updated.</p>	<p style="text-align: center;">Straighterline: CHEM 101/General Chem I CHEM 250/Organic Chemistry I CHEM 251/Organic Chemistry II CHEM 450/Biochemistry</p> <p style="text-align: center;">Study.com: Chemistry 101/General Chemistry Chemistry 111L/Chemistry I w/Lab (4 hours) Chemistry 112L/Chemistry II w/Lab (4 hours)</p> <p style="text-align: center;">Sophia Learning: CHEM 1001/Intro to Chemistry</p>	<p style="text-align: center;">CLEP Exams accepted: Chemistry</p>
Physics	<p style="text-align: center;">Science Lecture Options: PHYS 101/Elements of Physics PHYS 201/General Physics I (includes lab)</p>	<p style="text-align: center;">Straighterline: PHY 250/General Physics</p> <p style="text-align: center;">Study.com: Physics 101/Intro to Physics Physics 111/Physics I Physics 112/Physics II</p>	<p style="text-align: center;">CLEP Exams accepted: *Natural Sciences</p> <p style="text-align: center;">*(3 hours Biology & 3 hour Physics)</p>

<p>Earth/Space Science</p>	<p>Science Lecture Options: PHSC 121/Intro to Astronomy PHSC 210/Elements of Earth Science PHSC 311/Oceanography PHSC 312/Meteorology ENVR 320/ Environment & Sustainability ENVR 330/ Energy Resources & Efficiencies ENVR 350/ Environmental Science & Policy</p>	<p>Straighterline: ENV 101/Intro to Environmental Science</p> <p>Study.com: Astronomy 101/Intro to Astronomy Earth Science 101/Earth Science Earth Science 104/Intro to Meteorology Environmental Science 101/Environment & Humanity Geology 101/Physical Geology Science 101/Intro to Life Sciences Science 102/Principles of Physical Science</p> <p>Sophia Learning: Environmental Science</p>	<p>DSST/Dantes Exams accepted: Astronomy Environmental Science Intro to Geology</p> <p>*Exams do not include Labs. Labs must be completed separately to fulfill the requirement.</p>
<p>Labs (2 labs are required)</p>	<p>Science Lab Options: BIOL 103/Principles of Biology Lab PHYS 103/Elements of Physics Lab PHSC 211/Elements of Earth Science Lab PHSC 122/Elements of Astronomy Lab</p>	<p>Straighterline: BIO101L/Intro to Biology Lab BIO 201L/Anat & Phys I Lab BIO 202L/Anat & Phys II Lab BIO 250L/Microbiology Lab CHEM 101L/Gen Chem I Lab CHEM 450L/Biochemistry Lab PHY 250L/Gen Physics I Lab</p> <p>Study.com: Biology 101L/Intro to Biology w/Lab (4 hours) Chemistry 111L/Chemistry I w/Lab (4 hours) Chemistry 112L/Chemistry II w/Lab (4 hours)</p> <p>Sophia Learning: SCIE 1021/Human Biology Lab SCIE 1051/Anat & Phys I Lab Chem 1002/Intro to Chemistry Lab</p>	<p>*Exams do not include Labs. Labs must be completed separately to fulfill the requirement.</p>

Updated KH 8.1.23 ** If you wish to take courses at another institution, please email contentcompevals@liberty.edu for instructions and approval. For our Transfer Partnerships, please visit our website at: <https://www.liberty.edu/online/transfer-partnerships/> . Please note, our partnerships update yearly and at times, these courses can change.