



Laboratory Science Technology (LST) – Associate Degree program

Course: Laboratory Internship Experience (10-506-137)

Course Description

10-506-137 LABORATORY INTERNSHIP EXPERIENCE ...provides learners the opportunity to practice skills in a true laboratory setting. Emphases include successful execution of operating procedures and protocols, accurate and complete data collection and documentation, and relation of routine tasks to larger context of major project objectives and/or elements of research goals. (Prerequisite: Must complete, with C or better, at least 3 science courses within the LST curriculum (806 or 506))

Laboratory Internship Experience Competencies

What students will learn while completing the course and internship experience:

1. Execute and experiment(s) standard operating procedure(s) (SOP).
2. Apply the steps of the scientific method to solve problems.
3. Execute common laboratory procedures and measurements with precision, repeatability, and validity.
4. Assess the research organization for employment feasibility.
5. Model safe, hygienic laboratory practices.

LST Science Courses:

MAP: Laboratory Science Technology Pathway (105065)				
Catalog No.	Course Title	Credits	Prerequisite	Notes
10806114	General Biology	4		
10806197	Microbiology	4	10806177 Gen A&P <i>OR</i> 10806114 Gen Bio	
10506159	Cell & Molecular Biology	4	10806197 Microbiology	
10806135	College Chemistry 1	5		
10506136	College Chemistry 2	5	10806135 College Chem 1	
10506160	Organic Chemistry 1	4	10506136 College Chem 2	
10506162	Organic Chemistry 2	4	10506160 Organic Chem 1	
10806154	General Physics 1	4		
10806164	General Physics 2	4		
10506137	Laboratory Internship Experience	1	Program acceptance	Must complete, with C or better, at least 3 science courses w/in LST curriculum (806 or 506)
10506138	Experimental Design	1	Program acceptance	Must complete, with C or better, at least 3 science courses w/in LST curriculum (806 or 506)
10506157	Applied Statistics	4	10804195 College Algebra	
10506170	Experimental Research Capstone	2	10506138 Exp Design	

Student & Organization Expectations

Students are expected to complete 80 hours of laboratory internship experience. While completing the experience within an organization or industry, students are also enrolled in a 1-credit class and expected to complete writing assignments, participate in discussion boards with classmates, and be evaluated by the supervisor within the organization. Feedback from the supervisor will be shared with the instructor of the course as part of the student's assessment and grade.

The NWTC LST program recognizes many of our industry partners have a very rigid set of tests that are performed and don't expect students to necessarily participate in any new research or advanced experiments; or follow a complete procedure from start to finish. This is often a student's first experience working in a scientific role within an organization, and we are expecting a good experience that introduces them to the field with some hands-on experience that takes into account coursework completed early in their NWTC program time.

Organizations must designate a supervisor to track completed hours that apply to the internship. Two surveys will also be asked of the supervisor – one mid-way through the experience, and one at the end of the experience, related to the student's performance. These are completed via an online survey tool.

If an organization hires the student as an employee, it is understood there are likely additional responsibilities beyond the internship and an expectation of more than 80 hours of work in the timeframe of the class. NWTC simply needs to ensure 80 of those hours align with the course description and competencies outlined and have supervisor feedback on the student's abilities and skills.