# COLLEGE OF ARTS AND SCIENCES
## NEW PROGRAM REVIEW FORM

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<th>Department</th>
<th>Chair’s Signature</th>
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<th>Curriculum Committee</th>
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1. **Title of program.**

**Associate of Science Degree in Laboratory Science**

2. **Rationale for offering this program.**

From The Washburn University Strategic Plan (WBoR approved 4/9/2010)

"Strategic Theme IV, Goal A.3. Develop appropriate programs to support the bioscience initiative in Kansas."

The Associate of Science Degree in Laboratory Science is designed to develop science laboratory technicians available for the bioscience workforce. These technicians will have a fundamental understanding of the underlying chemical and biological science as well as the necessary scientific laboratory skills to be effective bench scientists.

A second group of students will also be served by this degree. Students pursuing a Doctor of Pharmacy complete the equivalent of two years of coursework before admission to pharmacy school. At Washburn University, this pre-pharmacy coursework is more than sufficient in quantity and rigor to warrant the awarding of an Associate of Science degree. Currently, the large majority of pre-pharmacy students leave Washburn University with no degree to show for their body of work completed.

A student who completes the degree will have completed at least the following science courses as well as the other university requirements common to all Associate degrees listed on page 74 of the 2010-2011 Washburn University Catalog:
Courses in Chemistry
- CH 151 Fundamentals of Chemistry I 5 credits
- CH 152 Fundamentals of Chemistry II 5 credits
- CH 340 Organic Chemistry I 3 credits
- CH 342 Organic Chemistry Laboratory I 2 credits

One of the three options
- CH 320 Analytical Chemistry 3 credits
- CH 321 Analytical Chemistry Laboratory 1 credit

or
- CH 341 Organic Chemistry II 3 credits
- CH 343 Organic Chemistry Laboratory II 2 credits

or
- CH 350 Biochemistry I 3 credits
- CH 351 Biochemistry Laboratory I 2 credits

Total in department 19-20 credits

Cognate courses
- MA 116 College Algebra 3 credits
- BI 102 General Cellular Biology 5 credits
- BI 301 General Microbiology 4 credits
- Biology elective with lab 3-5 credits

Total cognate 15-17 credits

3. Exact proposed catalog description.

The Departmental Mission and Student Learning Outcomes are as already stated in the catalog. The following will be added under "THE MAJOR."

AS in Laboratory Science – in addition to the university requirements common to all Associate degrees, at least 19 hours in the department are required, including the following courses and their prerequisites: Chemistry 342, one course from (320, 341, and 350), and one correlated laboratory course from (321, 343, and 351). Cognate course requirements are at least 12 hours in Biology including the following courses and their prerequisites: BI 301 and one laboratory containing course from (105, 110, 255, 275, 325, 333, and 354).

Students who are preparing for admission to a pharmacy school would complete the AS in Laboratory Science including the following recommended courses. CH 151, 152, 340, 341, 342, 343, BI 102, 250, 255, 301, MA 141, CN 101, PS 101 (or a high school Physics course with a grade of B or better), EC 200, PY 100, and a literature course in English.

4. List any financial implications.

none

Approved by Faculty Senate 1/24/2011