# Program of Study Request

Exit

**Form Id: 15881** **Form Status: Process**

***Please take action on the form.***

This service has been developed initially to support the conversion of the university's course inventory from a quarters to a semesters curriculum. **Getting started ...**

**Type of Request:**

(•) New ( ) Modify ( ) Deactivate ( ) Terminate ( ) Quarter to Semester

For *Deactivate*, the program must be terminated no later than the conclusion of 7 years from the deactivation and all students must complete degree requirements by this date. The Registrar's Office will notify the department when all students have completed degree requirements of the deactivated program.

**Client Info**

| | |
|---|---|
| **Name:** | Laura L. Buerschen |
| **Email:** | laura.buerschen@wright.edu |
| **Phone:** | 937.775.2427 |
| **Department:** | Biological Sciences |
| **Location:** | Biological Sciences Bldg 235, 3640 Colonel Glenn Hv |

**Program of Study**

MLB - Medical Laboratory Science

**Effective Term:** Summer 2017
**Level:** Undergraduate

College of Science & Math

**Degree:** BSMLS *New
**Major:** Medical Laboratory Science *New
**Minor:**
**Program:** Medical Laboratory Science *New
**Concentration:**

**Add'l Info:**
The Clinical Laboratory Science program is changing its name to Medical Laboratory Science to reflect the current nomenclature in the profession.

**Approvals**

| Activity | Role | Client | Status | Time |
|---|---|---|---|---|
| **Primary Route** | | | | |
| Dept_Review | Dept of Medical Laboratory Science | Laura L. Buerschen | Review | 12/02/2016 13:35:46 |
| CCC_Eval | UG Chair of College of Science & Math | Richard Mercer | Approve | 12/02/2016 14:05:01 |
| Dean_Review | Dean of College of Science & Math | Mark D. Mamrack | Review | 12/02/2016 15:32:30 |

| | | | | |
|---|---|---|---|---|
| UCAP_Eval | UCAP Chair | Karen Meyer | Approve | 03/09/2017 09:48:45 |

**Office Route**

| | | | |
|---|---|---|---|
| Registrar_Proc | Registrar Office | | Pending |

Notes Attach Audit

**Share with a colleague (Simple Webmail Client)**

**3640 Colonel Glenn Highway - Dayton, Ohio - 45435**

# Proposed Degree in Medical Laboratory Science

I. **Title of Program:** Bachelor of Science in Medical Laboratory Science
**Department:** Biological Sciences
**College:** College of Science and Mathematics

## II. Objectives:

The objectives of the Medical Laboratory Science degree are to provide the ability to meet or exceed entry level competencies as described by National Accrediting Agency for Clinical Laboratory Science (NAACLS). These objectives include, but are not limited to:

- Describe the principles, procedures, limitations, interferences and techniques of all common laboratory procedures.
- Recognize normal limits for the above procedures.
- Correlate patient laboratory data to determine sample acceptability and to determine clinical conditions.
- Establish and monitor a quality control program.
- Understand the basic principles of laboratory instruments.
- Perform as an entry level Medical Laboratory Scientist.

## III. Descriptions (catalog):

The Medical Laboratory Science degree program is a four-year medical laboratory curriculum accredited by the American Medical Association Council on Medical Education through the National Accrediting Agency of Clinical Laboratory Sciences (NAACLS). The last year of the program is a 12-month training, which includes 24 weeks of hospital practicums. Upon successful completion of the program, students receive a Bachelor of Science in Medical Laboratory Science. They also become eligible to take the national certification examination for medical laboratory scientists given by the American Society for Clinical Pathology (ASCP).

In the Fall semester of their preclinical year, students apply for the Medical Laboratory Science Clinical Year Program through the department. Criteria used to determine admission include the academic record, letters of recommendation, and a personal interview. The number of positions in each class for the clinical year is limited and determine by the Program's Advisory Committee.

The program's courses are oriented toward job performance, theory and clinical correlation. Students are placed in varied practice environments. They are also oriented to the need for continuing education and leadership in the planning and management of laboratory services. The program plan is specifically designed to facilitate student progress, and promote career development in any geographic location.

## IV. Admission Requirements:

Requirements for direct admission into the Medical Laboratory Science degree program are in alignment with the Wright State University College of Science and Mathematics criteria, including: a high school GPA of 3.0 or higher, an ACT Math score minimum of 22 or 520 on the SAT, and an ACT English score minimum of 23 or 530 on the SAT.

Students who intend to enter into the Medical Laboratory Science degree program but do not meet the criteria to be directly admitted will begin in University College. Once the student has satisfied the following criteria, they can be admitted into the Medical Laboratory Science degree program: completed at least 15 semester hours with a minimum cumulative GPA of 2.25, and earned a grade of "C" or higher in one of the following courses: BIO 1120, BIO 1150, or CHM 1210.

There is a separate application to the last 12 months of the program, the Clinical Year program (CYP). Prospective students apply to the CYP before November 1 of the calendar year preceding summer admission. They are required to complete an application with three references and to have a minimum overall GPA of 2.7 and a minimum grade of C in all science and math courses. Two faculty members and one clinical affiliate representative then interview the applicants. The curriculum committee votes at the annual meeting in January to accept or reject applicants and to determine the class size. Students enroll for the summer term and begin their didactic classes. Just after the fall term begins, students spend most of their remaining time at affiliate laboratories. Graduates of an approved (Clinical Laboratory Technician) CLT/(Medical Laboratory Technician) MLT program are considered for entry into the CYP on an individual basis.

## V. Program Requirements:

The program requirements can be found in the attached program of study.

## VI. Program Quality:

The current Clinical Laboratory Science Program has several quality assessments in place. The Medical Laboratory Science program will use the same assessments. Examples include, but are not limited to:

- The degree program should be completed in four years or less.
- The American Society for Clinical Pathology (ASCP) certifies Medical laboratory Scientists. The performance of the Medical Laboratory Science graduates on this examination will be reviewed annually in total for the program, but also for each of the laboratory areas in which the students are trained.
- The program has an Advisory Committee that meets annually in part to review the program and the ASCP certification exam performance.

- Alumni will be tracked to follow graduate successes and failures.

- Graduate employers will be surveyed annually for graduate performance in comparison to other employees with the same training.

- Data from these measures will be presented to the Biology Dept. Undergraduate Curriculum Committee, which will make recommendations for continuous improvement to enrich the student experience.

**VII. Student Performance:**

Students must complete all CoSM courses, including courses required for the program with a grade of "C" or better.

**VIII. Curriculum Coordination:**

This is a current program, Clinical Laboratory Science, in the Department of Biological Sciences. Those Clinical Laboratory Science (CL) courses are being converted to Medical Laboratory Science (MLB) courses, so no additional Wright State University courses or resources will be needed. As no new courses were created and all courses are regularly offered there are no coordination issues at this time.

**IX. Resource Coordination:**

No additional resources will be needed to offer the degree in Medical Laboratory Science.

**X. Program Staffing:**

No additional staffing will be needed to offer the degree in Medical Laboratory Science.

**XI. Other**

**a.** Employability
  - **i.** There has been 100% employment for graduates in the last six years.
  - **ii.** Across the nation, approximately 80% of currently practicing Medical Laboratory Scientists are expected to retire in the next 5-10 years, so the need is expected to grow.
  - **iii.** Starting salary for the most recently completing class was over $50,000/year.

**b.** Program accreditation
  - **i.** The program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS).
  - **ii.** Courses that were selected for the program were converted from CL courses that previously existed in the accredited CLS program.

| | |
|---|---|
| College | **Science and Mathematics** |
| Department | **Biological Sciences** |
| Degree (A.A. B.S., B.F.A., etc.) & Title | **Bachelor of Science in Medical Laboratory Science** |
| Concentration, Track, Option, Specialization | **n/a** |
| Minor Program Title | **na** |
| Certificate Program Title | **n/a** |

| **Current Semester Program** | |
|---|---|
| | **Hours** |
| **I. Wright State Core** | **43** |
| Element 1: Communication | 6 |
| Element 2: Mathematics | 4 |
| STT 2640 or STT 1600 required | |
| Element 3: Global Traditions | 6 |
| Element 4: Arts and Humanities | 3 |
| Element 5: Social Sciences | 6 |
| Element 6: Natural Sciences | 8 |
| BIO 1120 and 1150 required | |
| Additional Core Courses | |
| CHM 1210/2110L, CHM 2120/2120L | 10 |
| **II. Departmental Core Requirements** | **9.5** |
| BIO 2110 | 3 |
| BIO 2120 | 3 |
| BIO 3140 | 3.5 |
| **III. Departmental Requirements and electives** | **53.5** |
| BIO 3100/3110 | 5 |
| **ANT 3120** | **4** |
| **CL 4200, 4220, 4310, 4410, 4420, 4430, 4440, 4510, 4610, 4620, 4630, 4640, 4710, 4720, 4730, 4740, 4810, 4910, 4920, 4930, 4940** | **39** |
| **Upper Level Electives 5.5 cr hrs total** | **5.5** |
| **Choose from the following:** | |
| BIO 4430, 4760, 4460, 4080, CHM 3120/3120L, M&I 4260, 4310, 4750, 4270 or BMB 3230 | |
| **IV. Related Requirements** | **14** |
| MTH 1280 | 4 |
| CHM 2110/2110L & CHM 2120/2020L | 10 |
| **Total Hours:** | 120 |

| **New Semester Program** | |
|---|---|
| | **Hours** |
| **I. Wright State Core** | **43** |
| Element 1: Communication | 6 |
| Element 2: Mathematics | 4 |
| STT 2640 or STT 1600 required | |
| Element 3: Global Traditions | 6 |
| Element 4: Arts and Humanities | 3 |
| Element 5: Social Sciences | 6 |
| Element 6: Natural Sciences | 8 |
| BIO 1120 and 1150 required | |
| Additional Core Courses | |
| CHM 1210/2110L, CHM 2120/2120L | 10 |
| **II. Departmental Core Requirements** | **9.5** |
| BIO 2110 | 3 |
| BIO 2120 | 3 |
| BIO 3140 | 3.5 |
| **III. Departmental Requirements and electives** | **53.5** |
| BIO 3100/3110 | 5 |
| **MLB 4110(1), 4111(0.5), 4210(1), 4211(0.5), 4310(2), 4311(1), 4320(2), 4330(3), 4410(1), 4411(0.5), 4510(2), 4511(1), 4520(2), 4530(3), 4610(1), 4611(0.5), 4710(3.5), 4711(1.5), 4720(2), 4730(3), 4810(2), 4811(1), 4820(2), 4830(3), 4990(2)** | **42** |
| **Upper Level Electives 6.5 cr hrs total** | **6.5** |
| **Choose from the following:** | |
| ANT 3120 (4), BIO 4430 (5), 4760 (3), 4460(3), 4080 (3), CHM 3120/3120L(5), M&I 4260(3), 4310(3), 4750(3), 4270(4) or BMB 3230(3) | |
| **IV. Related Requirements** | **14** |
| MTH 1280 | 4 |
| CHM 2110/2110L & CHM 2120/2020L | 10 |
| **Total Hours:** | 120 |