## UNDERGRADUATE PROGRAM CHANGE

# **Proposal for a Program Change**

| Department Biological a                                | and<br>ntal Sciences   | Submi   |                              | 08/2015  |  |
|--|--|---------|------------------------------|--|--|
| Major  | Minor  |         |                              | Concentration X  |  |
| Semester of Implementation Fall 2016                   |  |         |                              |  |  |
| Retroactive? (If yes, please specify catalog year) No  |  |         |                              |  |  |
| I. Summary of Proposed Pro Program Name                | Ogram Change:  CURRENT  Biology Major, BS E  Clinical Lab Science  Concentration | Degree, | Check Box<br>if no<br>Change | PROPOSED CHANGE  |  |
| Credit Hours   | 120  |         | X                            |  |  |
| Course(s) to be Added                                  |  |         |                              | BIOL 120, 250, 301, 302, 305, 309, 315, 395, 455, 460, and 465; MATH 171, 261, and 301                                 |  |
| Course(s) to be Removed                                |  |         |                              | BIOL 121, 122, 292, 308, 405, 410, 435, 441, and 443   |  |
| Indicate courses to be substituted for removed courses |  |         |                              |  |  |
| Course(s) to be Changed                                |  |         |                              | BIOL 206, 207, 303, 304, 306, 324, 341, 342, 360, 361, 399, 404, 425, 426, 427, 430, 434, 445, 450, 470, 471, 474, 475 |  |
| Other Changes  |  |         | X                            |  |  |

| Provide proposed revisions in catalog copy – use <b>bold</b> for new information, strike through for deletions, and <i>italicize</i> changes.  |
|--|
| See catalog changes below  |
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| III. Rationale for proposed changes. Attach extra sheet if necessary.  |
| The proposed changes to the Clinical Lab Sciences Concentration are needed to adjust the   |
| requirements and catalog copy to reflect the changes made in biology courses and the program change in the "regular" biology major. Beginning with the 2016-2017 catalog, students in this |
| concentration will be able to choose between the different versions of the Human A&P and the   |
| Microbiology courses.  |
| We also would like to move the description of this concentration in the catalog. It currently occurs   |
| after all the biology course descriptions. We would like to place it immediately after the Teacher   |
| Preparation concentration, so that all concentrations will occur together.   |
| IV. Resource Assessment  |
| A. Estimate any change in staff requirements that would result from this program change.   |
| No additional staff will be required as a result of this program change.   |
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| B. Estimate the amount and cost of any extra equipment, library resources, computer hardware   |
| or software, or other resources that would be required to carry out this program change.   |
| None   |
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Proposed revision in catalog description of program.

II.

| If the proposed program changes could have an impact on other departments or programs, the appropriate affected chairs or program directors should be notified of the proposed changes. |  |  |  |  |
|---|--|--|--|--|
| A. List other departments/programs that might be affected:  |  |  |  |  |
| Math  |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| B. Individuals contacted and date contacted:  |  |  |  |  |
| David Shoenthal (Math) - 9/11/2015  |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |

Affected Departments or Programs:

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## SIGNATURE PAGE UNDERGRADUATE PROGRAM CHANGE

Biological and Environmental

Biology Major, BS Degree, Clinical Lab Department Sciences Program Name **Sciences Concentration** Date Received VI. Approvals **Date Approved** Signature 1. Department Curriculum Committee Chair 2. Department Chair The Department Chairs, whose programs may be affected, have been notified: Department \_ Math \_\_\_\_\_ Date Notified \_\_9/11/2015\_\_\_ Department \_\_\_\_\_ Date Notified \_\_\_\_\_ Department Date Notified 3. College Dean 4. College Curriculum Committee 5. Educational Policy Committee 6. \*Faculty Senate 7. \*VPAA 8. \*OAIR (notification only) 9. \*BOV/SCHEV - VPAA will submit materials for approval 10. Date received by Registrar

\*Substantive change (see definition and consult EPC chair prior to submitting materials)

All curriculum proposals/changes are processed in the date order received. In order to be included in the next academic year's catalog, all paperwork must be submitted no later than:

February 1<sup>st</sup> to the College Curriculum Committee March 1<sup>st</sup> to the Educational Policy Committee (EPC)

Submission within the deadlines does not guarantee processing in time for the next academic year's catalog.

## **Proposed Catalog Revisions**

#### CLINICAL LAB SCIENCE PROGRAMS

#### Faculty

David W. Buckalew, PhD, Associate Professor of Biology and Director of Health Pre-Professional Programs

Through its clinical lab science concentration, the Department of Biological and Environmental Sciences is successful in guiding students for careers in medical technology and clinical lab sciences. By working closely with the Director of Health Pre-Professional Programs, students can prepare for transfer into programs at a professional institution. Students in these programs typically have the option of taking courses at Longwood for one to three years prior to matriculation to a clinical program. Admission to these programs is highly competitive and is based on the student's academic performance during the pre-professional period as well as personal recommendations and related experiences. A minimum GPA of 3.0 is usually required for transfer. Completion of Longwood's clinical lab science concentration does not guarantee admission to a professional clinical lab sciences program. Links to professional schools and specific requirements may be found on the Department's website.

#### **Affiliated Institutions:**

Jefferson College of Health Sciences (JCHS)/Carilion Medical Clinic (CMC) School of Clinical Laboratory Science, Roanoke Inova Fairfax Hospital Medical Technology Program, Falls Church

## Biology Major, BS Degree, Clinical Lab Sciences Concentration

#### **Representatives of our Affiliated Institutions**

C. Barrie Cook, MD, Medical Director, School of Medical Technology, Inova Fairfax Hospital, Falls Church Amy Shoemaker, MBA. MT (ASCP) DLM Program Director, Medical Technology Program, Inova Fairfax Hospital Samuel F. Vance, MD, Medical Director, Jefferson College of Health Sciences (JCHS)/Carilion Medical Clinic (CMC) School of Clinical Laboratory Science, Roanoke

Randall (Randy) G. Vandevander, Interim Program Director Jefferson College of Health Sciences (JCHS)/Carilion Medical Clinic (CMC) School of Clinical Laboratory Science, Roanoke

#### A. General Education Core Requirement/33 credits

MATH 171 is required for General Education Goal 5. PHIL 315 or 316 is required for General Education Goal 12.

### B. BS Degree Additional Degree Requirements/7 credits

MATH 261 or MATH 301/3 credits Mathematics/Computer Science/3 credits CHEM 111 /4 credits

### C. Major Requirements/46 credits

| Research in Biology, |
|----------------------|
| Goal 14)             |
|                      |
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CHEM 213 Organic Chemistry Laboratory I/1 credit
CHEM 214 Organic Chemistry Laboratory II/1 credit
PHYS 101 General Physics I/4 credits

or PHYS 201 General Physics 1/4 credits
University Physics I/4 credits

PHYS 102 General Physics II/4 credits (waives General Education Goal 6)

#PHYS 202 University Physics II/4 credits (waives General Education Goal 6)

\*PHYS 101 is a prerequisite for PHYS 102. PHYS 201 is a prerequisite for PHYS 202

Electives/3 credits

## D. Major Requirements (affiliated schools)

Inova Fairfax Hospital/36 credits CMC School of Clinical Lab Science/42.5 credits

- E. Total Credits Required for BS in Biology with Medical Technology Concentration affiliated with Inova Fairfax Hospital Medical Technology Program, Falls Church/129-128
- F. Total Credits Required for BS in Biology with Medical Technology Concentration affiliated with Jefferson College of Health Sciences (JCHS)/Carilion Medical Clinic (CMC) School of Clinical Laboratory Science, Roanoke/135.5 134.5

Students should take the biology assessment test in their junior year unless they plan to take their senior year at Longwood. Information concerning curriculum at the hospitals, expenses, financial aid, etc. is available.