

LSC Use Only  
Number: \_\_\_\_\_  
Submission Date: \_\_\_\_\_  
Action-Date: \_\_\_\_\_



95-7  
UWUCC USE Only  
Number: 94-85  
Submission Date: App 9/26/95  
Action-Date: Senate App 11/7/95

**CURRICULUM PROPOSAL COVER SHEET**  
University-Wide Undergraduate Curriculum Committee

**I. CONTACT**

Contact Person Helen C. Cunningham/Margaret Bellak Phone 3090/7647  
Department Nursing and Allied Health Professions

**II. PROPOSAL TYPE (Check All Appropriate Lines)**

COURSE \_\_\_\_\_  
Suggested 20 character title

New Course\* \_\_\_\_\_  
Course Number and Full Title

Course Revision \_\_\_\_\_  
Course Number and Full Title

Liberal Studies Approval + \_\_\_\_\_  
for new or existing course Course Number and Full Title

Course Deletion \_\_\_\_\_  
Course Number and Full Title

Number and/or Title Change \_\_\_\_\_  
Old Number and/or Full Old Title  
New Number and/or Full New Title

Course or Catalog Description Change \_\_\_\_\_  
Course Number and Full Title

PROGRAM:       Major       Minor       Track

New Program\* \_\_\_\_\_  
Program Name

Program Revision\* Medical Technology \_\_\_\_\_  
Program Name

Program Deletion\* \_\_\_\_\_  
Program Name

Title Change \_\_\_\_\_  
Old Program Name  
New Program Name

**III. Approvals (signatures and date)**

[Signature] 12/5/94  
Department Curriculum Committee

[Signature] 3-15-95  
Department Chair

[Signature] 3/28/95  
College Curriculum Committee

[Signature] 28 MAR 95  
College Dean

+Director of Liberal Studies (where applicable)

\*Provost (where applicable)

MAIL> extract tt:

From: GROVE::KUZNESKI "JODELL KUZNESKI" 26-JAN-1996 07:37:38.07  
To: @UWUCC.DIS  
CC:  
Subj: for your information

From: GROVE::KUZNESKI "JODELL KUZNESKI" 25-JAN-1996 09:47:30.52  
To: MJSTAT  
CC: ME  
Subj: UWUCC

Hi, Mark. It has come to my attention that the UWUCC and Senate have already approved revisions in the following programs:

BS in Medical Techology  
BS in Education/Home Economics  
BS in Rehabilitation

As Marcia McCarty was preparing the final copies for the Senate archives, she realized (and notified me) that your signature is not on the cover sheets for these program revisions.

I took this matter to the UWUCC and we all agreed that I should at least notify you that we approved these items and sent them on to Senate without your signature. This was not intentional in any way and we have since become much more careful in looking for your sign off on program revisions BEFORE the UWUCC even screens a proposal for a program revision.

Please advise me as to any action you think necessary to address this matter.

Thank you.

Jody

#109 26-JAN-1996 07:38:32.24

NEWMAIL

From: GROVE::KUZNESKI "JODELL KUZNESKI"  
To: @UWUCC.DIS  
CC:  
Subj: For your information

From: GROVE::MJSTAT "Mark J. Staszkieicz" 25-JAN-1996 21:39:41.58  
To: GROVE::KUZNESKI  
CC: MJSTAT  
Subj: RE: UWUCC

Thanks for letting me know. Since my signature is primarily there to indicate support for needed resources, as long as those programs require none, I see no reason notto let it go through. Thanks again.


MAIL>

INDIANA UNIVERSITY OF PENNSYLVANIA  
DEPARTMENT OF NURSING AND ALLIED HEALTH PROFESSIONS  
INDIANA, PENNSYLVANIA 15705

DATE: September 12, 1995

SUBJECT: Medical Technology Curriculum Proposal

TO: Dr. Annie-Laurie Wheat  
Theater Department  
104 Waller Hall

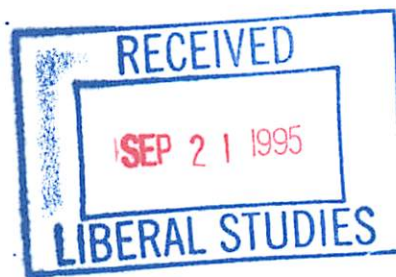
FROM: Helen C. Cunningham, Coordinator   
Allied Health Professions

The attached Medical Technology curriculum revision reflects the recommended alterations in the number of credits that appear in each section.

We agree that increasing free electives is a desirable outcome.

ejp

Enclosure - MT Proposal



## Part II. Description of Curriculum Change

### 1. Catalog description for the revised program in the appropriate form.

Medical Technology encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Medical technologists perform a variety of laboratory tests upon which the physician depends for accurate diagnosis, prognosis, and proper treatment of the patient. The program of studies, presented jointly by IUP and accredited medical technology programs in hospitals, prepares the student to enter the profession. Upon completion of the four-year program, the degree of Bachelor of Science in Medical Technology is granted. The program also prepares the student for graduate and professional schools.

IUP maintains short- and long-term affiliations with selected hospital schools. The Allied Health Professions coordinator provides student counseling and maintains a liaison with hospital schools. However, since admission to any hospital program is on a competitive basis, IUP cannot guarantee admission into any hospital program.

The following programs maintain permanent agreements of affiliations with IUP: Abington Memorial Hospital, Abington; Altoona Hospital, Altoona; Conemaugh Valley Memorial Hospital, Johnstown; Lancaster General Hospital, Lancaster, Latrobe Area Hospital, Latrobe; Polyclinic Medical Center, Harrisburg; Medical College Hospitals, Elkins Park; Scranton Medical Technology Consortium, Scranton; St. Vincent Health Center, Erie; and Washington Hospital, Washington. Other temporary affiliations are negotiated for the convenience of the student.

Completion of academic studies at IUP and one year of clinical experience qualifies the student to take a national certification examination. Successful results on this examination lead to certification as a professionally qualified medical technologist.

**Liberal Studies:** As follows 45sh

Composition: EN 101, EN 202  
 Humanities: three courses--one in each area (PH 222 recommended)  
 Fine Arts: one course  
 Mathematics: MA 110 or higher level  
 Natural Science: CH 111-112  
 Social Sciences: three courses  
 Health and Wellness/ROTC: H&W recommended  
 Liberal Studies electives or synthesis: PY 111

**Major:** 32sh

Required courses (1)

MT 494 Clinical Microbiology	8sh
MT 495 Clinical Chemistry	10sh
MT 496 Clinical Hematology/Coagulation	6sh
MT 497 Clinical Immunohematology	4sh
MT 498 Clinical Immunology/Serology	2sh
MT 499 Clinical Seminar	2sh

**Other Requirements: Science sequence** 37sh

Required courses:

BI 111 Principles of Biology I (BI 105 Cell Biology)*	4sh
BI 361 Microbiology	3sh
BI 364 Immunology	3sh
CH 231-232 Organic Chemistry I and II	8sh
CH 323 Analytical Methods	4sh
CH 351 Biochemistry	4sh
PY 121 Physics I Lab	1sh
PY 112/122 Physics II Lecture/Lab	4sh

Controlled electives:

Two courses from list:	6sh
BI 120, 151, 263, 331, 350, 352, 360, 432, 468, 476	

**Free Electives:** 10sh

(#) **Total Degree Requirements:** 124sh

- (#) See advisory paragraph "Timely Completion of Degree Requirements" in catalog section on Requirements for Graduation.
- (1) These courses are offered by our affiliating hospital-based clinical programs. These areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

\* Cell Biology (BI 105) will be required until BI 111 Principles of Biology I is approved - then BI 111 will be required and BI 105 deleted from required listing.

2. Summary of changes:

- a. Table comparing old and new programs.

See attached table comparing current and proposed Medical Technology curriculum.

- b. (1) Requiring BI 111 Principles of Biology I (once approved) in place of Cell Biology BI 105.
- (2) Deletion of BI 120 Animal Biology as a required course (5 credits)
- (3) Changing free electives from 4sh to 10sh with no restrictions
- (4) Adding courses to controlled (science) elective list - BI 112, BI 120, BI 151, BI 331, BI 350, BI 432, BI 468

**Current Medical Technology Program**

**Liberal Studies:** 45sh  
 Composition: EN 101, EN 202  
 Humanities: 3 courses--one in each area  
 (PH 222 recommended)  
 Fine Arts: one course  
 Mathematics: MA 110 or higher level  
 Natural Science: PY 111/121 and 112/122  
 Social Sciences: three courses  
 Health and Wellness/ROTC: H&W recommended  
 Liberal Studies electives or synthesis: one course

**Major:** 32sh

Required courses (1)  
 MT 494 Clinical Microbiology 8sh  
 MT 495 Clinical Chemistry 10sh  
 MT 496 Clin Hematology/Coagulation 6sh  
 MT 497 Clinical Immunohematology 4sh  
 MT 498 Clinical Immunology/Serology 2sh  
 MT 499 Clinical Seminar 2sh

**Other Requirements: Science sequence** 45sh

Required courses:  
 BI 105 Cell Biology# 4sh  
~~BI 120 Animal Biology# 5sh~~  
 BI 361 Microbiology 3sh  
 BI 364 Immunology 3sh  
 CH 111 General Chemistry I 4sh  
 CH 112 General Chemistry II 4sh  
 CH 231 Organic Chemistry I 4sh  
 CH 232 Organic Chemistry II 4sh  
 CH 323 Analytical Methods 4sh  
 CH 351 Biochemistry 4sh

**Controlled electives:**

Two courses from list: 6sh  
 BI 263, 352, 360, 472#, 476

~~#Deleted from proposed program~~~~Free Electives:~~ 4sh

~~BI 151 Human Physiology strongly recommended~~

**Total Degree Requirements** 126sh

(1) These courses are offered by our affiliating hospital-based clinical programs. These areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

**Proposed Medical Technology Program**

**Liberal Studies:** 45sh  
 Composition: EN 101, EN 202  
 Humanities: 3 courses--one in each area  
 (PH 222 recommended)  
 Fine Arts: one course  
 Mathematics: MA 110 or higher level  
 Natural Science: CH 111-112  
 Social Sciences: three courses  
 Health and Wellness/ROTC: H&W recommended  
 Liberal Studies electives or synthesis: PY 111

**Major:** 32sh

Required courses (1)  
 MT 494 Clinical Microbiology 8sh  
 MT 495 Clinical Chemistry 10sh  
 MT 496 Clin Hematology/Coagulation 6sh  
 MT 497 Clinical Immunohematology 4sh  
 MT 498 Clinical Immunology/Serology 2sh  
 MT 499 Clinical Seminar 2sh

**Other Requirements: Science sequence** 37sh

Required courses:  
 BI 111 Principles of Biology I\* 4sh  
 BI 361 Microbiology 3sh  
 BI 364 Immunology 3sh  
 CH 231 Organic Chemistry I 4sh  
 CH 232 Organic Chemistry II 4sh  
 CH 323 Analytical Methods 4sh  
 CH 351 Biochemistry 4sh  
 PY 121 Physics I Lab 1sh  
 PY 112/122 Physics II Lecture/Lab 4sh

**Controlled Electives:**

## Two courses from list:

BI112\*, 120\*, 151\*, 263, 331\*, 350\*, 352, 360, 432\*, 468\*, 476

~~\*Added to proposed program~~~~Free Electives:~~ 10sh

**Total Degree Requirements** 124sh

(1) These courses are offered by our affiliating hospital-based clinical programs. These areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

### 3. Rationale for Change

- a. BI 111 (Principles of Biology I), 4 credits, will include a laboratory each week and will be more appropriate for Medical Technology students. Cell Biology (BI 105) is being reconfigured for Respiratory Therapy, Food and Nutrition, and Nursing majors only. The course as it is currently taught will be revised and will eliminate laboratory and 1 credit hour. BI 111 will be a prerequisite for upper level Biology classes which Medical Technology students take.  
NOTE: Cell Biology as offered will remain required until the BI 111 course is in place with appropriate approval.
- b. BI 120 Animal Biology (will become BI 220 General Zoology) is being reconfigured from 5 credits to 3 credits, will be added to the elective science list, but will be removed as a requirement. Affiliating agencies were contacted and felt as long as the students complete 16 credits of biology coursework, Animal Biology does not need to be required.
- c. Will change free electives from 4sh to 10sh. This will provide students more choice for electives which was previously very restrictive.
- d. Expanding biology electives available will increase student choice and opportunity to schedule elective courses. The following list will be offered as the approved list for biology electives:

BI 112 Principles of Biology II (when approved)  
BI 120 Animal Biology (BI 220 General Zoology, when approved)

BI 151 Human Physiology  
BI 263 Genetics  
BI 331 Animal Developmental Biology  
BI 350 Cell Physiology  
BI 352 Comparative Animal Physiology  
BI 360 Medical Mycology  
BI 432 Comparative Vertebrate Anatomy  
BI 468 Principles of Virology  
BI 476 Parasitology

### Part III. Implementation. Provide answers to the following questions:

1. How will the proposed revision affect students already in the existing program?

These revisions will be implemented for the next incoming class once approval is received. The revision will not affect students currently enrolled.

We propose the following changes following the approval of Principles of Biology I. Principles of Biology I will be required in lieu of Cell

Biology and Principles of Biology II will appear on the approved electives list.

These proposed changes in the curriculum of Medical Technology will increase the semester hours of free electives from 4 to 10. The curriculum has been very restrictive in this area for students. The Joint Review Committee imposed on Medical Technology requires 16 credits of Biology and 16 credits of Chemistry. These changes will continue to meet the requirements of the accreditors of the clinical programs with whom IUP affiliates.

2. How will the proposed revision affect faculty teaching loads? Have additional faculty been authorized? If you are adding requirements, how will adequate seats be provided?

The proposed revision does not involve any new or revised courses and will not require additional faculty. Those who teach the biology courses are aware of our proposed changes and support the change of Cell Biology to Principles of Biology I as appropriate.

3. Are other resources adequate? (Space, equipment, supplies, travel funds)

No additional resources will be necessary.

4. Do you expect an increase or decrease in the number of students as a result of these revisions? If so, how will the department adjust?

No changes expected.

#### IV. Course Proposals

Course proposals for any new courses added, revised, or deleted as a result of this program revision. A course analysis questionnaire and syllabus must be included for each course.

None needed.

#### V. Letters of Support

Letter of support from Dr. Robert Prezant is attached.



March 6, 1995

TO: Margaret W. Bellak, Acting Coordinator  
Allied Health Professions

FROM: Dr. Robert S. Prezant, Chair  
Department of Biology



RE: Medical Technology Curriculum Revision

Thank you for the opportunity to review the revised Medical Technology Curriculum proposal. Obviously it is important that we continue to work together to insure a smooth transition of your new curriculum and that of Biology. I believe the changes in both curricula will lead to much improved programs in both areas.

Our new curriculum should have BI111, Principles of Biology, in place by Fall 1996. We have planned to have seats amounting to two laboratory sections (i.e. n=48) available for Medical Technology students. These replace seats in our revised Cell Biology (BI103) which will then lack a laboratory component. Additionally, the deletion of BI120 as a required course is appropriate. This course will be shrinking from 5 to 3 credits and will be modified as a fused lecture/lab course that will be less appropriate as a required course for Medical Technology students. It is, of course, still available as an elective.

The list of electives for Medical Technology students is appropriate and, as reformulated, offers your students a wider array of courses to choose among.

Please keep in mind that our new curriculum in Biology will not begin until Fall 1996. That year we will institute (after Senate approval) our Principles of Biology course (BI 111, 112) but other changes will not begin until the following year. Also note that BI361 Microbiology will change in our new curriculum to BI250 Principles of Microbiology.

With stable resources and faculty within Biology, we are now able to accommodate the 50 or so students in Medical Technology that require Biology courses. As in any program, an increase in the number of students within your major would require an increase in allotted resources within our Department. Barring these quantitative changes, I support the program revisions proposed for Medical Technology majors.

la