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Number: 02-123a
Submission Date: _____
Action-Date: App - 4/22/03

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

Senate App 4/29/03

I. CONTACT

Contact Person Jodell Kuzneski Phone 73257 or 77647

Department Nursing and Allied Health Professions

II. PROPOSAL TYPE (Check All Appropriate Lines)

APR 24 2003
LIBERAL STUDIES

RECEIVED
APR 22 2003
LIBERAL STUDIES

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 Medical Technology
Old Program Name

Clinical Laboratory Science
New Program Name

III. Approvals (signatures and date)

Jodell Kuzneski 4-14-03
Department Curriculum Committee

Dr. Michelle DeWick
Department Chair

Jeffrey Miller
College Curriculum Committee

J. Beck 4-15-03
College Dean

RECEIVED
APR 24 2003

+ Director of Liberal Studies (where applicable)

*Provost (where applicable)

Part II. Description of Curriculum Change

1A. Current Catalog Description for Medical Technology

Medical Technology encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Medical technologists/clinical laboratory scientists 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 degree 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 affiliation with IUP: Abington Memorial Hospital, Abington; Altoona Hospital, Altoona; Elkins Park Hospital, Elkins Park; Lancaster General College of Nursing and Health Sciences, Lancaster; Reading Hospital and Medical Center, Reading; St. Vincent Health Center, Erie; University of Hartford, West Hartford, Connecticut; and York Hospital, York. Other temporary affiliations are negotiated for the convenience of the student.

Completion of academic studies at IUP and of 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/clinical laboratory scientist.

Bachelor of Science--Medical Technology

Liberal Studies: As follows 45-47
Composition: ENGL 101, 102
Humanities: three courses—one in each area
 (PHIL 222 recommended)
Fine Arts: one course
Mathematics: MATH 110 or higher level
Natural Science: CHEM 111-112
Social Sciences: three courses
Health and Wellness/ROTC: H&W recommended
Liberal Studies Electives: PHYS 111
Synthesis: not required
Writing Intensive: one required

Major: 32
Required Courses: (1)

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

Other Requirements: 37-39**Science Courses:**

BIOL 111	Principles of Biology I	4sh
BIOL 250	Principles of Microbiology	3sh
BIOL 364	Immunology	3sh
CHEM 231	Organic Chemistry I	4sh
CHEM 232	Organic Chemistry II	4sh
CHEM 323	Analytical Methods	4sh
CHEM 351	Biochemistry	4sh
PHYS 121	Physics I Lab	1sh
PHYS 112	Physics II Lecture	3sh
PHYS 122	Physics II Lab	1sh

Controlled Electives

Two courses from the following	6sh
BIOL 112, 120, 151, 263, 331, 350, 352, 360, 432, 466, 476	

Free Electives**6-10****#Total Degree Requirements****124**

(#) See advisory paragraph "Timely Completion of Degree Requirements" in the 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. All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

1B. Revised Catalog Description: Clinical Laboratory Science

Clinical Laboratory Science encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Clinical Laboratory Scientists (also known as 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 clinical laboratory science programs in hospitals, prepares the student to enter the profession. Upon completion of the four-year program, the degree of Bachelor of Science degree in Clinical Laboratory Science is granted. The program also prepares the student for graduate and professional schools.

IUP maintains affiliations with accredited Schools of Clinical Laboratory Science/Medical Technology. To be competitive for clinical placement the student must have a minimum overall GPA and Math/Science GPA of 2.5. Since admission to any hospital program is on a competitive basis, IUP cannot guarantee admission.

The following programs maintain agreements of affiliation with IUP: Abington Memorial Hospital, Abington; Altoona Hospital, Altoona; Conemaugh Memorial Medical Center, Johnstown; Graduate Hospital, Philadelphia; Lancaster General College of Nursing and Health Sciences, Lancaster; Reading Hospital and Medical Center, Reading; St. Vincent Health Center, Erie; and York Hospital, York.

Completion of academic studies at IUP and of 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/clinical laboratory scientist.

Bachelor of Science—Clinical Laboratory Science

Liberal Studies: As outlined in the Liberal Studies Section with the following specifications **48**

Mathematics: MATH 217

Natural Science: CHEM 111-112

Liberal Studies Electives: 6 crs - PHYS 111

Synthesis: not required

Writing Intensive: one required

Major: **32**

Required Courses: (1)

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

Other Requirements: **38**

Science Courses:

BIOL 111	Principles of Biology I	4sh
BIOL 150	Human Anatomy	3sh
BIOL 151	Human Physiology	4sh
BIOL 250	Principles of Microbiology	3sh
BIOL 364	Immunology	3sh
CHEM 231	Organic Chemistry I	4sh
CHEM 232	Organic Chemistry II	4sh
CHEM 323	Analytical Methods	4sh
CHEM 351	Biochemistry	4sh
PHYS 121	Physics I Lab	1sh
PHYS 112	Physics II	3sh
PHYS 122	Physics II Lab	1sh

Free Electives **2**

#Total Degree Requirements **120**

(1) These courses are offered by affiliating hospital-based Schools of Clinical Laboratory Science (also known as Medical Technology). Areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences and are completed during the final twelve months of the degree program at an affiliating school.

2. Summary of changes:

- Change in program name from Medical Technology to Clinical Laboratory Science

- Change in description of program
- Specify MATH 217 Probability and Statistics as the LS mathematics requirement
- Delete controlled electives and specify BIOL 150 and 151
- Change the number of liberal studies requirements from 45-47 to 48
- Change the number of credit hours for free electives from 6-10 to 2
- Change the number of credit hours for Other Requirements from 37-39 to 38
- Change the total number of credit hours from 124 to 120

3. **Rationale for the change:**

Clinical Laboratory Science is the preferred title for this degree program and is recognized by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and the two professional associations: American Society of Clinical Pathologists (ASCP), and the American Society for Clinical Laboratory Specialist (ASCLS).

Catalog description change reflects an updating of the program, clarification of career choices, accreditation status.

NAACLS has recently revised accreditation criteria and is now requiring Probability and Statistics, Anatomy and Physiology. This proposal puts the curriculum requirements in compliance with the NAACLS accreditation criteria.

Part III. Implementation

1. Students are currently being advised to select MATH 217 as their math course, and BIOL 150 and 151 as their Biology electives. The change in requirements will have little effect on current students since most of them are following these recommendations. Students admitted to the major beginning in the fall 2003 will be required to follow the new curriculum.
2. Faculty teaching loads will not be changed with this revision.
3. Resources are adequate for this change.
4. Student numbers should not change because of this revision.

Part IV. Course Proposals: There are no new course proposals for this revision.

Part V. Letters of Support: A letter of support from the chairpersons of the Department of Mathematics and the Department of Biology are attached.

Comparison of Current and Proposed Curricula:

Medical Technology		Clinical Laboratory Science	
Current	Cr	Proposed	Cr
Liberal Studies: as follows:	45-47	Liberal Studies: as outlined in Liberal Studies section with the following specifications:	48
Composition: ENGL 101, 202		Mathematics: MATH 217	
Humanities: three courses – one in each area (PHIL 222 recommended)		Natural Science: CHEM 111-112	
Fine Arts: one course		Liberal Studies Electives: 6 crs - PHYS 111	
Mathematics: MATH 110 or higher level		Synthesis: not required	
Natural Science: CHEM 111-112		Writing Intensive: one required	
Social Sciences: three courses			
Health and Wellness/ROTC: H&W recommended			
Liberal Studies Electives: PHYS 111			
Synthesis: not required			
Writing Intensive: one required			
Major		Major	
Required Courses	32	Required Courses	32
Other Requirements: Science Sequence	37-39	Other Requirements	38
BIOL 111 Principles of Biology I	4	BIOL 111 Principles of Biology	4
BIOL 250 Principles of Microbiology	3	BIOL 150 Human Anatomy	3
BIOL 364 Immunology	3	BIOL 151 Human Physiology	4
CHEM 231 Organic Chemistry I	4	BIOL 250 Principles of Microbiology	3
CHEM 232 Organic Chemistry II	4	BIOL 364 Immunology	3
CHEM 323 Analytical Methods	4	CHEM 231 Organic Chemistry I	4
CHEM 351 Biochemistry	4	CHEM 232 Organic Chemistry II	4
PHYS 121 Physics I Lab	1	CHEM 323 Analytical Methods	4
PHYS 112 Physics II Lecture	3	CHEM 351 Biochemistry	4
PHYS 122 Physics II Lab	1	PHYS 121 Physics I Lab	1
		PHYS 112 Physics II	3
		PHYS 122 Physics II Lab	1
Controlled Electives	6		
Two courses from the following: BIOL 112, 120, 151, 263, 331, 350, 352, 360, 432, 466, 476			
Free Electives	6-10	Free Electives	2
Total Degree Requirements	124	Total Degree Requirements	120

Jodell Kuzneski

From: "Gary Stoudt" <gsstoudt@iup.edu>
To: "Jodell Kuzneski" <kuzneski@iup.edu>
Sent: Thursday, April 10, 2003 10:40 AM
Subject: Support for NMDT and MEDT

The Mathematics Department supports the revision of the Nuclear Medicine Technology program to include both MATH 105 and MATH 217.

We also support the change in the mathematics requirement of the Medical Technology from MATH 105 to MATH 217

MATH 217 is a good quantitative course for many fields, and many majors are now requiring it instead of other mathematics courses. We already have plans to shift resources from these courses to MATH 217. We will be able to accommodate the extra students from MEDT and NMDT in MATH 217 over the course of the three years they are at IUP.

Gary

Gary Stoudt, Chairperson
Mathematics

Jodell Kuzneski

From: "Jodell Kuzneski" <kuzneski@iup.edu>
To: "Carl Luciano" <luciano@iup.edu>
Cc: "Jodell Kuzneski" <kuzneski@iup.edu>
Sent: Tuesday, April 15, 2003 10:15 AM
Subject: Re: MEDT and RESP proposals

Yes, Carl. This letter is acceptable and I appreciate your support and acknowledgement of resource issues.

Our departments have been able to manage wide fluctuations in enrollment in the past and I remain optimistic that we can continue to do so.

Jody

----- Original Message -----

From: Carl Luciano
To: Jodell Kuzneski
Cc: luciano@iup.edu
Sent: Tuesday, April 15, 2003 9:37 AM
Subject: Re: MEDT and RESP proposals

Jody

See below for a draft of a support email. Under the circumstances I have to include something about resources and likely insufficiency. We will have to manage enrollments very carefully in order to survive the next few years.

Let me know if the draft is pretty much what you need and I will send it back in finished form. Thanks, CL

DRAFT

The Biology Department supports the MEDT curriculum changes as far as academic integrity is concerned. Overall, we think the changes add strength to the MEDT program.

We add the caveat that we may not be able to provide enough seats to accommodate all students who want to take our classes, particularly upper-division specialty courses such as BIOL 364 Immunology. Our ability to offer seats in 200-level courses such as BIOL 263 Genetics and BIOL 250 Principles of Microbiology will also be limited for the foreseeable future. There may also be a problem with capacity in BIOL 150 Human Anatomy and BIOL 151 Human Physiology, where MEDT students will be competing for seats with other programs in Health and Human Services and in Natural Sciences and Mathematics. We do not anticipate a problem seating students in BIOL 111 Principles of Biology.

The recent budget cuts emanating from Harrisburg forced us to reduce our faculty complement in the Department of Biology. This in turn has a negative impact on our ability to serve other Departments. It is unlikely that we will be able to add extra sections of, for example, BIOL 150 or BIOL 151 as we have done in the past to accommodate increased enrollments in Nursing and Allied Health. Since the Biology Department is facing a number of faculty retirements in the near future we may not be able to provide the expertise to teach specialty courses. As always, our low-enrollment specialty courses are subject to last-minute cancellation on the grounds of poor teaching efficiency.

Please feel free to contact me with any additional questions.

----- Original Message -----

From: Jodell Kuzneski

To: Carl Luciano
Cc: Jodell Kuzneski
Sent: Tuesday, April 15, 2003 8:47 AM
Subject: MEDT and RESP proposals

Carl,

The college curriculum committee reviewed the allied health proposals yesterday and I am ready to move them to the dean and then to the Liberal Studies Committee for review on Thursday.

For the MEDT program, I am requesting a note of support for now requiring BIOL 150, 151, and 263. I hope you are able to send such a response as soon as possible. An email message is acceptable. Again, the 150 and 151 are now required by the accrediting agency. Genetics is recommended by the accrediting agency and was also identified by you and the others from your department at our fall meeting. I know the program directors of the med tech schools also highly recommend this course.

For the respiratory program....I continue to have difficulties with this proposal. You are correct, BIOL 103 is a lab science and NOT approved as a nonlab course that I could use, even temporarily to count as a LS elective. Mary Sadler and I both were confused about this when she and I tried to problem solve with this proposal.

The proposal has been changed back to the original---requiring all the same biology courses, including BIOL 105.

I have included a footnote in the proposal that BIOL 105 approval as a non-lab science is pending. I am unsure how the LS committee and UWUCC will view this but at this point it is the only solution I have.

So, I am also requesting an email from you that the department intends to advance a proposal for cell to be approved as a non-lab LS science.

I would also like to talk with whomever you think I should contact about the criteria for the non-lab approval. May I contact either Bill Dietrich or Martha Jack?

I hope to hear from you soon.

Thank you,

Jody

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Thank you,

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To: "Carl Luciano" <luciano@iup.edu>
Cc: "Jodell Kuzneski" <kuzneski@iup.edu>
Sent: Tuesday, April 15, 2003 10:15 AM
Subject: Re: MEDT and RESP proposals

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From: Carl Luciano
To: Jodell Kuzneski
Cc: luciano@iup.edu
Sent: Tuesday, April 15, 2003 9:37 AM
Subject: Re: MEDT and RESP proposals

Jody

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DRAFT

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Please feel free to contact me with any additional questions.

----- Original Message -----

From: Jodell Kuzneski

Elaine J. Pedaci

From: "Marcy Rearick" <mrearick@iup.edu>
To: "Elaine J. Pedaci" <pedaci@iup.edu>; <kuzneski@iup.edu>
Cc: <rdistani@iup.edu>; <mrearick@grove.iup.edu>
Sent: Friday, April 11, 2003 1:53 PM
Subject: Re: Medical Technology to Clinical Laboratory Science

Elaine, Just for the record the program, major, and subject code for Clinical Laboratory Science will be identified as CLSC.

----- Original Message -----

From: "Marcy Rearick" <mrearick@iup.edu>
To: <rdistani@iup.edu>; <kberezan@grove.iup.edu>
Sent: Friday, April 11, 2003 8:51 AM
Subject: Medical Technology to Clinical Laboratory Science

| Rich,
| I just received a call form Elaine Pedaci in Nursing who is working with
| Jody Kuzneski on the major program revision for MEDT. The program name
| will
| be changing to Clinical Laboratory Science (CLSC?). Since it is such a
| significant change, the they are concerned that students will not relate
| the
| MEDT courses with the new program and major.
|
| Looks like there's no getting around changing the program, major, and
| subject.
|
| Marcy
|