

Status: PENDING

PROGRAM REQUEST
Medical Technology

Last Updated: Soave, Melissa A
04/11/2011

Fiscal Unit/Academic Org School of Allied Medical Prof - D2504
Administering College/Academic Group The College of Medicine
Co-administering College/Academic Group
Semester Conversion Designation Re-envisioned with significant changes to program goals and/or curricular requirements (e.g., degree/major name changes, changes in program goals, changes in core requirements, structural changes to tracks/options/courses)
Current Program/Plan Name Medical Technology
Proposed Program/Plan Name Medical Technology
Program/Plan Code Abbreviation MEDTECH-BS
Current Degree Title Bachelor of Science in Allied Health Professions

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		182	121.3	126	4.7
Required credit hours offered by the unit	Minimum				
	Maximum	78	52.0	56	4.0
Required credit hours offered outside of the unit	Minimum				
	Maximum	50	33.3	33	0.3
Required prerequisite credit hours not included above	Minimum				
	Maximum	30	20.0	16	4.0

Explain any change in credit hours if the difference is more than 4 semester credit hours between the values listed in columns B and C for any row in the above table

The total credit hours required for completion of Program is above the 4 semester hour limit. The Division decided to add management and research content to the curricula. The School is working towards having common courses in which each Division can participate. Two of these courses (management and research) will be taken by the students. This will provide the students a better foundation for opportunities post graduation.

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

- Program Learning Goals**
- 1: To communicate in a clear and effective manner with people from various socio-cultural backgrounds, both verbally and in writing.
 - 2: To demonstrate critical thinking, professional decision making, and psychomotor skills necessary
 - 3: Integrate evidence-based practice and scholarship in making and prioritizing professional decisions.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? Yes

Summarize how the program's current quarter-based assessment practices will be modified, if necessary, to fit the semester calendar.

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The current quarter-based assessment practices will not be modified to fit the semester calendar. The Division is keeping the current courses/curriculum that is used to assess students.

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Pre-Major

Does this Program have a Pre-Major? Yes

General Education Curriculum (7980 hours)
Students must complete the General Education Curriculum (GEC) before graduating from the University.
Writing and Related Skills (10 hours) Historical Study (10 hours)
Mathematical and Logical Analysis (910 hours) Art and Humanities (10 hours)
Natural Sciences (20 hours) Breadth Courses (10 hours)
Social Sciences (10 hours) Diversity Courses (015 hours)
Program Prerequisites (5051 hours)

Students who wish to apply to the Medical Technology program must have completed all of the following program prerequisite courses or their equivalent with a C- or better unless otherwise noted by the end of Summer semester prior to enrollment in the professional program.

Math 1150 or higher
General Chemistry 1
General Chemistry 2*
Biology 1113
Statistics 1450
Microbiology 4090
Molecular Genetics *

Organic Chemistry Options
(1) Organic Chemistry 1* and General Biochemistry*
(2) Molbiochem 1 and Molbiochem 2

*Course must be completed with a D or better.

Attachments

- Medical Technology Name Change_2010.pdf: Med Tech Name Change
(Other Supporting Documentation. Owner: Robinson-Easter, Regina Marie)
- MedTechQuarter_to_Semester_Conversion_Program_Narrative_Revised101910me[1]_DL.docx: MT Program Proposal
(Program Proposal. Owner: Robinson-Easter, Regina Marie)
- SAMP Cover Letter & Transition Plan.pdf: Unit Letter and Transitional Policy
(Letter from Program-offering Unit. Owner: Robinson-Easter, Regina Marie)
- %COM Semester Conversion Letter 12 10 10.pdf
(Letter from the College to OAA. Owner: Lucey, Catherine Reinis)

Comments

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Robinson-Easter, Regina Marie	01/26/2011 04:13 PM	Submitted for Approval
Approved	Robinson-Easter, Regina Marie	01/26/2011 04:28 PM	Unit Approval
Approved	Larsen, Deborah Sue	02/04/2011 12:41 PM	SubCollege Approval
Approved	Lucey, Catherine Reinis	02/10/2011 02:10 PM	College Approval
Pending Approval	Soave, Melissa A	02/10/2011 02:11 PM	CAA Approval



Office of the Dean
College of Medicine

254 Meiling Hall
370 West 9th Avenue
Columbus, OH 43210
Phone: 614.292.2600 / Fax: 614.292.4254

December 10, 2010

W. Randy Smith, PhD
Vice Provost, Curriculum & Institutional Relations
Office of Academic Affairs
203 Bricker Hall
190 North Oval Mall
CAMPUS

Dear Dr. Smith:

The College of Medicine submits for approval the following programs for semester conversion:

Baccalaureate Programs (School of Allied Medical Professions):

- 1) Athletic Training
- 2) Biomedical Sciences
- 3) Health Information and Management Systems
- 4) Health Sciences
- 5) Medical Dietetics
- 6) Medical Technology
- 7) Radiologic Sciences and Therapy with subprograms in Radiation Therapy, Radiography and Sonography
- 8) Respiratory Therapy

Minors:

- 1) Integrated Determinants of Health (School of Allied Medical Professions)
- 2) Anatomy (School of Biomedical Sciences, Dept. of Biomedical Informatics)

Masters Degree Programs:

- 1) Masters of Occupational Therapy (School of Allied Medical Professions)
- 2) MS in Health and Rehabilitation Sciences (School of Allied Medical Professions)
- 3) MS in Anatomy (School of Biomedical Sciences, Department of Biomedical Informatics)
- 4) MS in Medical Sciences (College of Medicine)
- 5) MS in Pathology (School of Biomedical Sciences, Dept of Pathology)
- 6) MS in Pharmacology (School of Biomedical Sciences, Dept. of Pharmacology)

Doctoral Degree Programs:

- 1) Doctor of Physical Therapy [DPT] (School of Allied Medical Professions)
- 2) Doctor of Medicine [MD] (College of Medicine)
- 3) PhD in Health and Rehabilitation Sciences (School of Allied Medical Professions)
- 4) PhD in Integrated Biomedical Sciences [IBGP] (School of Biomedical Sciences)
- 5) PhD in Anatomy (School of Biomedical Sciences, Dept. of Biomedical Informatics)

Each program proposal has been carefully developed with considerable curricular review and appropriate unit approval; letters delineating the process and approval accompany each template. At the College level, all proposals have been reviewed and approved through the College's Curriculum Review process. Accordingly, each program has developed a transition plan that will allow students that maintain good academic standing to complete their respective program without delay due to the semester conversion. These transition plans are included with each program template. The course templates for all courses have also been submitted for approval. Please contact me or Deborah S. Larsen, our semester conversion coordinator, with any questions; specific questions regarding individual templates may be directed through Dr. Larsen to the appropriate contact person. Contact information is as follows:

Catherine R. Lucey, MD
Phone: 292-2600
e-mail: Catherine.lucey@osumc.edu

Deborah S. Larsen, PhD
Phone: 292-5645
e-mail: Deborah.larsen@osumc.edu

Thank you for the review of these materials.

Sincerely,



Catherine R. Lucey, MD
Interim Dean and Vice Dean of Education
College of Medicine



January 25, 2011

Catherine R. Lucey, MD
Interim Dean and Vice Dean for Education
College of Medicine
260 Meiling Hall
CAMPUS

Dear Dr. Lucey:

On behalf of the School of Allied Medical Professions, I am pleased to submit the semester conversion plans for the following programs:

Certificates:

- 1) Health Information Management and Systems
- 2) Medical Technology – proposed name change to Medical Laboratory Sciences
- 3) Respiratory Therapy

Baccalaureate (BS in Allied Health)

- 1) Athletic Training – degree change to BS in Athletic Training
- 2) Biomedical Sciences
- 3) Health Information Management and Systems
- 4) Health Sciences
- 5) Medical Dietetics
- 6) Medical Technology – proposed name change to Medical Laboratory Sciences
- 7) Radiation Therapy
- 8) Radiography
- 9) Respiratory Therapy

Graduate

- 1) Masters of Occupational Therapy (MOT)
- 2) Masters of Science in Health and Rehabilitation Sciences (MS)
- 3) Doctor of Physical Therapy (DPT)
- 4) Doctor of Philosophy in Health and Rehabilitation Sciences (PhD)

Minor:

- 1) Integrated Determinants of Health

The conversion of each of these programs was initiated through two School-wide retreats, comprehensive curriculum mapping, conducted by our Executive Committee, and multiple working groups within and between programs. Each curriculum was reviewed and revised consistent with current healthcare practice and, for many, their accreditation criteria. For the undergraduate programs, working groups revised and amended our elective core courses; it was recommended that each program enroll students in the core courses rather than teach individual unit courses, which was done by all programs, consistent with content needs. Our entry-level graduate programs (Occupational Therapy and Physical Therapy), also developed a core evidence-based practice sequence to encourage collaborative problem-solving among students in those two programs. One course, AM 5000 "Strategies for Interprofessional Case Management", is a new elective course that will provide interdisciplinary case management exposure to students from all of the programs in the School; due to the high number of credits within each curriculum, this course is recommended but not required. Each curriculum was approved by the faculty within the respective program and by the School's curriculum committee on the following dates:

- 1) Respiratory Therapy – approved 7/14/2010
- 2) Medical Technology – approved 8/5/2010
- 3) Medical Dietetics – approved 8/11/2010
- 4) Radiologic Sciences & Therapy – approved 8/11/2010
- 5) Occupational Therapy – approved 8/11/2010
- 6) Biomedical Sciences – approved 8/18/2010
- 7) Physical Therapy – approved 8/19/2010
- 8) Athletic Training – approved 9/15/2010
- 9) MS in Allied Medicine – approved 9/15/2010
- 10) PhD in Health and Rehabilitation Sciences – approved 9/15/2010
- 11) Health Information Management and Systems – approved 9/22/2010

In reviewing the clinical experiences of students in each program, it was noted that there was no standard credit hour allocation for the full or part-time clinical experiences. Our Executive Committee voted unanimously to impose a consistent credit hour allocation, based on the following formula: Full-time (40hr/week, 14 weeks) = 12 credits for undergraduate and 8 for graduate programs; 20 hr/week = 6 credits for undergraduate, 4 for graduate; 10 hr/wk = 3 credits for undergraduate and 2 for graduate; and so on. Some programs have implemented 7 week clinical experiences that follow the same proportional allocation (i.e. 7 week, full time = 6 credits). This change often distorted the 2/3 conversion formula, since historically clinical experiences were under- credited; however, all programs were converted with minimal changes and have indicated such within their program templates.

In concert with the semester conversion, there are two program specific requests:

- 1) The Athletic Training program is requesting to change the degree awarded from Allied Health to Athletic Training to meet accreditation requirements;
- 2) The Medical Technology program is requesting to change the name of their program to Medical Laboratory Science, which is consistent with their licensure and accreditation recommendations.

These changes have been approved by the School's Executive Committee by unanimous vote on 12-7-10 and the Faculty Council on 1-21-11.

If you should have any questions or concerns, please feel free to contact me directly.

Sincerely,



Deborah S. Larsen, PhD
Director, School of Allied Medical Professions
Associate Dean, College of Medicine
614-292-5645
deborah.larsen@osumc.edu



Medical Technology Division

Atwell Hall Rm. 535
453 West 10th Ave
Columbus, OH 43210
(614) 292-7303

December 6, 2010

Deborah Larsen, Ph.D.
Director, School of Allied Medical Professions
The Ohio State University
106 Atwell Hall
453 W. 10th Avenue
CAMPUS

Dear Dr. Larsen:

The faculty in the Medical Technology Division wishes to change the Division's name to Medical Laboratory Science. This name better reflects the mission of the Division as the courses are composed of clinical laboratory analysis in the life science areas of: chemistry, immunology, hematology, transfusion medicine, and microbiology. Additionally, this name incorporates both education tracts offered by the Division: Clinical Laboratory Science and Medical Science.

At times, the current program name is confused with those of academic areas involved with medical devices. Students seeking information are often under the impression that the Division is involved in engineering science versus life science. Additionally, when the two major certification bodies (American Society for Clinical Pathology and National Credentialing Agency for Laboratory Personnel) recently merged into a "newer" ASCP, it was decided that persons passing the national examination would be certified as Medical Laboratory Scientist. As a result the change in the Division name to Medical Laboratory Science would more clearly allow students, professionals, and others to understand the profession and areas of study.

We believe that this change will allow the Division to continue to meet the challenges and changes seen with the growing science field. Thank you for considering this request. Please let me know if you require additional information.

Sincerely,

Tammy Bannerman, Ph.D., D(ABMM)
Interim Director
Medical Technology Division

**Semester Conversion
Transition Plan
School of Allied Medical Professions**

The School administration, advising staff, and each program have made considerable efforts to assure the timely progression of students enrolled during the semester transition so that students who maintain good academic standing and follow the outlined curricula will be held harmless.

Advising:

Our undergraduate programs admit students either for their sophomore year (Athletic Training, Health Sciences, Medical Dietetics, and Respiratory Therapy) or junior year (Health Information Management, Health Sciences, Medical Technology, Radiologic Sciences, Respiratory Therapy). Our pre-major advisors are providing information to our freshman and sophomores and providing curriculum plan drafts for respective programs. Proposed curriculum plans for each group of students are posted on the School's web site. For those sophomores that have been admitted to their respective programs, Division/Program Directors will meet with each cohort to explain proposed changes. All programs except Health Sciences are lock step, so individual advising should not be necessary once students are admitted to a program. Health Sciences students have a dedicated advisor that serves both pre-majors and matriculated students. We will hold group and individual advising sessions, as needed, for students in that program.

Our Doctor of Physical Therapy (DPT) is 3 1/4 years in duration, so students admitted for Summer 2010 will complete the program under semesters; further, students admitted in 2009 will need to complete their program 1 quarter early due to the implementation of semesters for summer quarter (typically the last quarter for that program). Orientation for the first year students and a class meeting for the 2nd year students have been held to outline the semester curriculum and impact on both groups of students. Our Director of Admissions is advising all potential applicants, both current OSU students and transfer students to both the DPT and MOT.

Graduate students within our MS and PhD programs will be provided individual advising to assure appropriate academic progress. Additionally, informational meetings have been held for advisors to outline changes in the curriculum, occurring with the transition. Some flexibility within both programs will be implemented with regard to program requirements for students in process during the transition. Students admitted for Autumns 2010 and 2011 will begin taking the quarter equivalent of the semester curriculum, for which courses have been submitted for approval.

All programs will continue to hold cohort meetings and provide appropriate advising to assure a smooth transition and timely program completion for all students that maintain appropriate progress within their respective programs.

Program Progression Issues:

1. Academic: Currently students must earn a C- (undergraduate) or C (graduate) to pass a class. For students that earn a grade lower than this, they must stop the program and rejoin the curriculum the next time the course is offered (typically the following year).

Quarter to Semester Conversion – Medical Technology (Medical Laboratory Science) Program Proposal

RATIONALE FOR PROPOSED PROGRAM CHANGES

The proposed program changes that will occur during the quarter to semester conversion for Medical Technology Division are limited in scope. The Division will maintain the 4 current curriculum tracks: Certification, Medical Science, MLT articulation, and Coordinated Graduate under its new name Medical Laboratory Science. The degree requirements for the various tracks are included for review; however, the Certification Track serves as the model for each of the other tracks. The changes being made during the conversion process will allow the Division to align its curriculum content with the changes in the field of medical laboratory science (medical technology). The curricula will continue to emphasize the information from the main subject areas in medical laboratory science: microbiology, chemistry, immunology, hematology, and immunohematology. Several of the main subject area courses that were series quarter courses (or had a separate clinical correlations component) have been combined into a single semester course. As mentioned above, this will give the teaching faculty/staff the opportunity to review all current course content and redesign the course with the changes seen in medical laboratory science. The Division will add to the curricula more management and research content which will provide the students in the various tracks a better foundation for post-baccalaureate education and job opportunities. Finally, the Division has reviewed (and modified as needed) the curriculum of each track to allow for a means to measure growth/attainment of program goals. These were not well defined in the medical science and MLT (now MLS) articulation tracks. The medical science track students will enroll in a series of courses that will track their professional growth while in the curricula and the MLS articulation students will take the cumulative, interdisciplinary examination the final semester of the program (currently being taken by the certification and coordinated graduate students).

CURRICULUM MAP: See Attachment III

TRANSITION POLICY

The School's transition policy applies to the Medical Laboratory Science program with the following exceptions:

- 1) Students who fail a course (below C-) can continue in the program but will need to retake and pass the failed course with a C- or better at its next offering, which is typically one year later; this may delay graduation;
- 2) Students entering the Medical Laboratory Science Program in Autumn of 2011 will be deficient in hematology as they will have only taken the first of two courses under the quarter curriculum. As a result, a transition hematology course will be offered in the Spring semester of 2013 to the entering class of 2011 to provide the students with the additional hematology information. After this, the course will be removed from the curriculum. Students entering the Medical Laboratory Science Program after Autumn of 2011 will be receiving all of the hematology material in a single semester course that is offered their first semester in the

ATTACHMENT I**Semester Courses: Certification Track**

Department	Course Title	Proposed Course Number	Credit Hours
Medical Laboratory Science	Phlebotomy and the Medical Laboratory Environment (Lecture)	MLS 4400	1
Medical Laboratory Science	Phlebotomy and the Medical Laboratory Environment (Laboratory)	MLS 4405	1
Medical Laboratory Science	Medical Laboratory Microbiology I (Lecture)	MLS 5000	3
Medical Laboratory Science	Medical Laboratory Microbiology I (Laboratory)	MLS 5005	2
Medical Laboratory Science	Medical Laboratory Hematology (Lecture)	MLS 5050	5
Medical Laboratory Science	Medical Laboratory Hematology (Laboratory)	MLS 5055	2
Medical Laboratory Science	Medical Laboratory Microbiology II (Lecture)	MLS 5100	3
Medical Laboratory Science	Medical Laboratory Microbiology II (Laboratory)	MLS 5105	1
Medical Laboratory Science	Medical Laboratory Microscopy (Lecture)	MLS 5150	1
Medical Laboratory Science	Medical Laboratory Microscopy (Laboratory)	MLS 5155	1
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Lecture)	MLS 5400	1.5
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Laboratory)	MLS 5405	0.5
Medical Laboratory Science	Professional Issues in Medical Laboratory Science	MLS 5350	1.5
Medical Laboratory Science	Medical Laboratory Immunology (Lecture)	MLS 5200	3
Medical Laboratory Science	Medical Laboratory Immunology (Laboratory)	MLS 5205	1
Medical Laboratory Science	Medical Laboratory Immunoematology (Lecture)	MLS 5250	5
Medical Laboratory Science	Medical Laboratory Immunoematology	MLS 5255	2

	(Laboratory)		
Medical Laboratory Science	Medical Laboratory Chemistry (Lecture)	MLS 5300	5
Medical Laboratory Science	Medical Laboratory Chemistry (Laboratory)	MLS 5305	2
Medical Laboratory Science	Clinical Practice in Medical Laboratory Science	MLS 5089	8.5
Medical Laboratory Science	Interdisciplinary Studies in Medical Laboratory Science	MLS 5600	1
Mathematics	Precalculus	Math 1150	5
Chemistry	General Chemistry I (Chemistry 121/122)	Unknown	5
Chemistry	General Chemistry II (Chemistry 122/123)	Unknown	5
Biology	Biological Sciences: Energy Transfer and Development (Bio 113)	Bio 1113	4
Statistics	Introduction to the Practice of Statistics (Stat 145)	Stat 1450	3
Microbiology	Basic and Practical Microbiology (Micro 509)	Micro 4090	4
Molecular Genetics	General Genetics (Mol Gen 500)	Unknown	(4)
Chemistry/Biochemistry or Molecular and Cellular Biochemistry	Organic Chemistry I (Chemistry 251/252)/ General Biochemistry (Biochemistry 511) or (Molbiochem 311/312)	Unknown	4/4 or 5/5
Allied Medicine	Management Principles for Health Professionals	AM 5300	3
Allied Medicine	Research Design in Biomedical Sciences	AM 5900	3
	General Education Courses		

Semester Courses: Medical Science Track

Department	Course Title	Proposed Course Number	Credit Hours
Medical Laboratory Science	Medical Laboratory Microbiology I (Lecture)	MLS 5000	3
Medical Laboratory Science	Medical Laboratory Hematology (Lecture)	MLS 5050	5
Medical Laboratory Science	Medical Laboratory Microbiology II (Lecture)	MLS 5100	3

Medical Laboratory Science	Medical Laboratory Microscopy (Lecture)	MLS 5150	1
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Lecture)	MLS 5400	1.5
Medical Laboratory Science	Medical Laboratory Immunology (Lecture)	MLS 5200	3
Medical Laboratory Science	Medical Laboratory Immunoematology (Lecture)	MLS 5250	5
Medical Laboratory Science	Medical Laboratory Chemistry (Lecture)	MLS 5300	5
Medical Laboratory Science	Seminar in Medical Laboratory Science	MLS 5890	1
Medical Laboratory Science	Advanced Topics in Medical Laboratory Science	MLS 5891	1
Mathematics	Precalculus	Math 1150	5
Chemistry	General Chemistry I (Chemistry 121/122)	Unknown	5
Chemistry	General Chemistry II (Chemistry 122/123)	Unknown	5
Biology	Biological Sciences: Energy Transfer and Development (Bio 113)	Bio 1113	4
Statistics	Introduction to the Practice of Statistics (Stat 145)	Stat 1450	3
Microbiology	Basic and Practical Microbiology (Micro 509)	Micro 4090	4
Molecular Genetics	General Genetics (Molecular Genetics 500)	Unknown	(4)
Chemistry	Organic Chemistry I (Chemistry 251/252)	Unknown	4
Biochemistry	Introduction to Biological Chemistry (Biochemistry 511)	Unknown	4
Allied Medicine	Management Principles for Health Professionals	AM 5300	3
Allied Medicine	Research Design in Biomedical Sciences	AM5900	3
	General Education/Elective Courses		

Semester Courses: MLT Articulation Track

Department	Course Title	Proposed Course Number	Credit Hours
Medical Laboratory Science	Medical Laboratory Microbiology I (Lecture)	MLS 5000	3
Medical Laboratory Science	Medical Laboratory Hematology (Lecture)	MLS 5050	5
Medical Laboratory Science	Medical Laboratory Microbiology II (Lecture)	MLS 5100	3
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Lecture)	MLS 5400	1.5
Medical Laboratory Science	Professional Issues in Medical Laboratory Science	MLS 5350	1.5
Medical Laboratory Science	Medical Laboratory Immunology (Lecture)	MLS 5200	3
Medical Laboratory Science	Medical Laboratory Immunohematology (Lecture)	MLS 5250	5
Medical Laboratory Science	Medical Laboratory Chemistry (Lecture)	MLS 5300	5
Medical Laboratory Science	Interdisciplinary Studies in Medical Laboratory Science	MLS 5600	1
Mathematics	College Algebra	Math 1148	4
Chemistry	General Chemistry I (Chemistry 121/122)	Unknown	5
Chemistry	General Chemistry II (Chemistry 122/123)	Unknown	5
Biology	Biological Sciences: Energy Transfer and Development (Bio 113)	Bio 1113	4
Statistics	Elementary Statistics	Stat 1350	3
Molecular Genetics	General Genetics (Molecular Genetics 500)	Unknown	(4)
Biochemistry	Elements of Biochemistry (Biochemistry 211/212)	Unknown	3
Allied Medicine	Management Principles for Health Professionals	AM 5300	3
Allied Medicine	Research Design in Biomedical Sciences	AM 5900	3
	General Education/Elective Courses		

Semester Courses: Coordinated Masters

Department	Course Title	Proposed Course Number	Credit Hours
Medical Laboratory Science	Phlebotomy and the Medical Laboratory Environment (Lecture)	MLS 4400	1
Medical Laboratory Science	Phlebotomy and the Medical Laboratory Environment (Laboratory)	MLS 4405	1
Medical Laboratory Science	Medical Laboratory Microbiology I (Lecture)	MLS 5000	3
Medical Laboratory Science	Medical Laboratory Microbiology I (Laboratory)	MLS 5005	2
Medical Laboratory Science	Medical Laboratory Hematology (Lecture)	MLS 5050	5
Medical Laboratory Science	Medical Laboratory Hematology (Laboratory)	MLS 5055	2
Medical Laboratory Science	Medical Laboratory Microbiology II (Lecture)	MLS 5100	3
Medical Laboratory Science	Medical Laboratory Microbiology II (Laboratory)	MLS 5105	1
Medical Laboratory Science	Medical Laboratory Microscopy (Lecture)	MLS 5150	1
Medical Laboratory Science	Medical Laboratory Microscopy (Laboratory)	MLS 5155	1
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Lecture)	MLS 5400	1.5
Medical Laboratory Science	Molecular Techniques in Medical Laboratory Science (Laboratory)	MLS 5405	0.5
Medical Laboratory Science	Professional Issues in Medical Laboratory Science	MLS 5350	1.5
Medical Laboratory Science	Medical Laboratory Immunology (Lecture)	MLS 5200	3
Medical Laboratory Science	Medical Laboratory Immunology (Laboratory)	MLS 5205	1
Medical Laboratory Science	Medical Laboratory Immunochemistry (Lecture)	MLS 5250	5
Medical Laboratory Science	Medical Laboratory Immunochemistry (Laboratory)	MLS 5255	2
Medical Laboratory Science	Medical Laboratory Chemistry (Lecture)	MLS 5300	5

Medical Laboratory Science	Medical Laboratory Chemistry (Laboratory)	MLS 5305	2
Medical Laboratory Science	Clinical Practice in Medical Laboratory Science	MLS 5089	8.5
Medical Laboratory Science	Interdisciplinary Studies in Medical Laboratory Science	MLS 5600	1
Medical Laboratory Science	Graduate Seminar	MLS 6890	1
Medical Laboratory Science	Graduate Education Practicum	MLS 6885	1
Mathematics	Precalculus	Math 1150	5
Chemistry	General Chemistry I (Chemistry 121/122)	Unknown	5
Chemistry	General Chemistry II (Chemistry 122/123)	Unknown	5
Biology	Biological Sciences: Energy Transfer and Development (Bio 113)	Bio 1113	4
Statistics	Introduction to the Practice of Statistics (Stat 145)	Stat 1450	3
Microbiology	Basic and Practical Microbiology (Micro 509)	Micro 4090	4
Molecular Genetics	General Genetics (Molecular Genetics 500)	Unknown	(4)
Chemistry/Biochemistry or Molecular and Cellular Biochemistry	Organic Chemistry I (Chemistry 251/252)/ General Biochemistry (Biochemistry 511) or (Molbiochem 311/312)	Unknown	4/4 or 5/5
Allied Medicine	Management Principles for Health Professionals	AM 5300	3
Allied Medicine	Research Design in Biomedical Sciences	AM 5900	3
Allied Medicine	(Allied Medicine Seminar AM 795)	Unknown	1
Agriculture and Extension Education	(Agriculture Education Research Methods AEE 885 and Research Design AEE 886)	Unknown	5
Allied Medicine	(Managerial Leadership in Allied Health AM 730)	Unknown	(2)
Allied Medicine	(Allied Medicine Research AM 999)	Unknown	(2)
Allied Medicine	(Teaching in the Allied Health Professions AM	Unknown	(2)

	753)		
Allied Medicine	(Evidence Based Practice AM 892)	Unknown	(2)
	General Education Courses		

ATTACHMENT IIA: Quarter Advising Sheet

THE OHIO STATE UNIVERSITY

SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL TECHNOLOGY, CERTIFICATION TRACK

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

The Medical Technology certification track prepares students to become nationally registered medical technologists (clinical laboratory scientists) and work in clinical laboratory positions upon graduation. Graduates are eligible to sit for national certifying examinations.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission. The Application deadline for Autumn 2010 professional admission is **March 1, 2010**.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents.
2. A minimum 2.50 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered. Although a 2.5 GPA is the minimum, the average GPA is typically higher than a 3.0
3. Completion of prerequisite courses by the end of Summer quarter prior to enrollment in the professional program.
4. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

A minimum total of 182 quarter credit hours, including all general graduation requirements, General Education Curriculum, program prerequisites, and professional curriculum.

General Education Curriculum (79-80 hours)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing and Related Skills (10 hours)

Mathematical and Logical Analysis (9-10 hours)

Natural Sciences (20 hours)

Social Sciences (10 hours)

Historical Study (10 hours)

Art and Humanities (10 hours)

Breadth Courses (10 hours)

Diversity Courses (0-15 hours)

Program Prerequisites (50-51 hours)

Students who wish to apply to the Medical Technology program must have completed at least 90 quarter credit hours including all of the following program prerequisite courses or their equivalent with a C- or better unless otherwise noted by the end of Summer Quarter prior to enrollment in the professional program.

Math 150 or higher
Chemistry 121*

Chemistry 122*
Chemistry 123

Biology 113

Statistics 145

Microbiology 509

Molecular Genetics 500*

Organic Chemistry Options

(1) Chemistry 251* and 252* and
Biochemistry 511*

(2) Molbiochem 311 and 312

*Course must be completed with a D or better.

Professional Curriculum (78 hours)

The professional curriculum includes Medical Technology courses available to students who have been admitted to the professional program. It is completed in sequence and there is no provision for evening-only enrollment, however, a student may complete the program on a part-time basis. The program includes one quarter of clinical rotations in the final quarter of enrollment.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Technology certification track program in 12 quarters. The quarter and year in which some courses are placed can be adjusted to meet the individual needs of students.

<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
<p>Autumn AMP 100 (1) Math 150 or higher (5) Chemistry 121 (5) GEC (5) Total (15-16)</p>	<p>Autumn Chemistry 251 (3) Or Molbiochem 311 (5) Microbiology 509 (5) Statistics 145 (5) Total (13-15)</p>	<p>Autumn Med Tech 400 (2) Med Tech 480.01/480.02 (3) Med Tech 525.01/525.02 (5) Elective (2) Total (12)</p>	<p>Autumn Med Tech 645.01/645.02 (7) Med Tech 604 (2) Med Tech 615.01/615.02 (6) Total (15)</p>
<p>Winter Chemistry 122 (5) Biology 113 (5) GEC (5) Total (15)</p>	<p>Winter Chemistry 252 (3) Or Molbiochem 312 (5) Mol Gen 500 (5) GEC (5) Total (13-15)</p>	<p>Winter Med Tech 500.01/500.02 (6) Med Tech 510.01/510.02 (5) GEC (5) Total (16)</p>	<p>Winter Med Tech 620 (3) Med Tech 635.01/635.02 (8) Med Tech 605 (2) Total (13)</p>

<p>Spring Chemistry 123 (5) English 110 (5) GEC (5)</p> <p style="text-align: right;">Total (15)</p>	<p>Spring Biochemistry 511* (5) GEC (5) GEC (5)</p> <p style="text-align: right;">Total (15)</p>	<p>Spring Med Tech 630.01/630.02 (5) Med Tech 570.01/570.02 (3) Med Tech 600.01/600.02 (3) Med Tech 602 (2)</p> <p style="text-align: right;">Total (13)</p>	<p>Spring Med Tech 669 (12) Med Tech 679 (2) Med Tech 689 (2)</p> <p style="text-align: right;">Total (16)</p>
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* Biochemistry 511 only required if Chemistry 251-252 series is taken.

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic counselor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with a counselor in the Office of Student Affairs to discuss special circumstances which may apply.

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THE OHIO STATE UNIVERSITY
SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL TECHNOLOGY, MEDICAL SCIENCE TRACK - QUARTERS

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

The Medical Technology Medical Science track is designed to prepare individuals for graduate school or post-baccalaureate professional programs in such areas as medicine, veterinary medicine, dentistry, optometry, physician's assistant, and others. This track is flexible and can be tailored to meet the career goals of the students. Graduates from this program are not eligible for national certifying examinations.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission. The Application deadline for Autumn 2010 professional admission is **March 1, 2010**.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents. Off-quarter admissions are available for this track. Please refer to Professional Admissions website for details.
2. A minimum 2.50 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered.
3. Completion of prerequisite courses by the end of Summer quarter prior to enrollment in the professional program.
4. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

A minimum total of 182 quarter credit hours, including all general graduation requirements, General Education Curriculum, program prerequisites, and professional curriculum.

General Education Curriculum (79-80 hours)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing and Related Skills (10 hours)

Historical Study (10 hours)

Mathematical and Logical Analysis (9-10 hours)

Art and Humanities (10 hours)

Natural Sciences (20 hours)

Breadth Courses (10 hours)

Social Sciences (10 hours)

Diversity Courses (0-15 hours)

Program Prerequisites (50-51 hours)

Students who wish to apply to the Medical Technology program must have completed at least 90 quarter credit hours including all of the following program prerequisite courses or their equivalent with a C- or better unless otherwise noted by the end of Summer Quarter prior to enrollment in the professional program.

Math 150 or higher	Statistics 145
Chemistry 121*	Chemistry 251* and 252* and Biochemistry 511*
Chemistry 122*	Microbiology 509
Chemistry 123	Molecular Genetics 500*
Biology 113	

*Course must be completed with a D or better.

Professional Curriculum (39 hours)

The professional curriculum includes Medical Technology courses available to students who have been admitted to the professional program. Students can complete the program on a part-time basis, however, most courses are offered during the day.

Students who wish to complete additional prerequisite requirements for Medical School or other professional schools such as Optometry, Dentistry, Veterinary Medicine, Physician’s Assistant and others should consult the course requirements for those programs of study.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Technology Medical Science track program in 12 quarters. The quarter and year in which some courses are placed can be adjusted to meet the individual needs of students.

<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
<p>Autumn Allied Med 100 (1) Math 150 or higher (5) Chemistry 121 (5) GEC (5)</p> <p style="text-align: right;">Total (16)</p>	<p>Autumn Chemistry 251 (3) Microbiology 509 (5) Statistics 145 (5)</p> <p style="text-align: right;">Total (13)</p>	<p>Autumn Med Tech 525.01 (3) Med Tech 595 (2) Biochemistry 511 (5) Physics 111* (5)</p> <p style="text-align: right;">Total (15)</p>	<p>Autumn Med Tech 604 (2) Med Tech 615.01 (4) Med Tech 645.01 (5) GEC (5)</p> <p style="text-align: right;">Total (16)</p>
<p>Winter Chemistry 122 (5) Biology 113 (5) Math 151* (5)</p> <p style="text-align: right;">Total (15)</p>	<p>Winter Chemistry 252 (3) Chemistry 254* (3) GEC (5)</p> <p style="text-align: right;">Total (11)</p>	<p>Winter Med Tech 500.01 (3) Med Tech 510.01 (3) Physics 112* (5) GEC (5)</p> <p style="text-align: right;">Total (16)</p>	<p>Winter Med Tech 605 (2) Med Tech 635.01 (5) GEC (5)</p> <p style="text-align: right;">Total (12)</p>
Spring	Spring	Spring	Spring

Chemistry 123 (5) English 110 (5) Biology 114* (5) Total (15)	Chemistry 253* (3) Chemistry 255* (3) Mol Gen 500 (5) GEC (5) Total (16)	Med Tech 570.01 (2) Med Tech 600.01 (2) Med Tech 630.01 (4) Med Tech 602 (2) Physics 113* (5) Total (15)	GEC (5) Electives (7) ** Total (12)
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* Pre-Medical School requirement only. Not required to meet degree requirements for Medical Technology.

** Only needed if students need to be enrolled as a full-time student.

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic counselor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with a counselor in the Office of Student Affairs to discuss special circumstances which may apply.

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THE OHIO STATE UNIVERSITY
SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL TECHNOLOGY MLT ARTICULATION TRACK - QUARTERS

PROGRAM OVERVIEW

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

The MLT Articulation Track was developed to allow certified MLT/CLTs to become eligible for the MT certification exam through the American Society of Clinical Pathology (ASCP) or National Certifying Agency (NCA). To meet the eligibility requirements for the MT(ASCP) or CLS(NCA) exam, articulation students must be certified as an MLT or CLT, obtain a bachelor's degree from an accredited institution, and have at least three years clinical lab experience within the last ten years (for ASCP) or two years clinical lab experience within the last four years (for NCA). Experience must be in all areas including Blood Banking, Chemistry, Hematology, Microbiology, Immunology and Clinical Microscopy. The articulation track in the Medical Technology program allows students to complete the requirements for a bachelor's degree in two years or less if all prerequisites are completed prior to enrolling. The program can also be completed on a part-time basis for those interested in this option.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission. The Application deadline for Autumn 2010 professional admission is **March 1, 2010**.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents. Off-quarter admissions are available for this track. Please refer to Professional Admissions website for details.
2. A minimum 2.50 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered in admission.
3. Completion of prerequisite courses by the end of Summer quarter prior to enrollment in the professional program.
4. Proof of MLT certification in good standing through the American Society of Clinical Pathology (ASCP) or National Certifying Agency (NCA).
5. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

A minimum total of 182 quarter credit hours, including all general graduation requirements, General Education Curriculum, program prerequisites, and professional curriculum.

General Education Curriculum (79-80 hours)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing and Related Skills (10 hours)

Historical Study (10 hours)

Mathematical and Logical Analysis (9-10 hours)

Art and Humanities (10 hours)

Natural Sciences (20 hours)

Breadth Courses (10 hours)

Social Sciences (10 hours)

Diversity Courses (0-15 hours)

Program Prerequisites (40-41 hours)

Students who wish to apply to the Medical Technology program must have completed at least 90 quarter credit hours including all of the following program prerequisite courses or their equivalent by the end of Summer Quarter prior to enrollment in the professional program. **Courses with an asterisk (*) must be completed with a grade of C- or higher.**

*Math 148 or higher

Molecular Genetics 500

*Biology 113

Chemistry 121, 122, and *123

*Statistics 135

Biochemistry 211 and 212

Professional Curriculum (38 hours)

The professional curriculum includes Medical Technology courses available to students who have been admitted to the professional program. It is completed in sequence and there is no provision for evening-only enrollment, however, a student may complete the program on a part-time basis.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Technology MLT Articulation track program in 6 quarters. The quarter and year in which some courses are placed can be adjusted to meet the individual needs of students.

<i>Year 1</i>	<i>Year 2</i>
<p>Autumn Med Tech 525.01 (3) GEC (5) GEC (5) Total (13)</p>	<p>Autumn Med Tech 615.01 (4) Med Tech 645.01 (5) Med Tech 604 (2) GEC (5) Total (17)</p>
<p>Winter Med Tech 500.01 (3) Med Tech 510.01 (3) GEC (5) Total (11)</p>	<p>Winter Med Tech 620 (3) Med Tech 605 (2) Med Tech 635.01 (5) GEC (5) Total (13)</p>
<p>Spring Med Tech 602 (2) Med Tech 630.01 (4)</p>	<p>Spring Med Tech 600.01 (2) GEC (5)</p>

GEC (5)	GEC (5)
GEC (5)	
Total (16)	Total (12)

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic counselor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with a counselor in the Office of Student Affairs to discuss special circumstances which may apply.

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THE OHIO STATE UNIVERSITY
SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL TECHNOLOGY COORDINATED GRADUATE PROGRAM - QUARTERS

PROGRAM OVERVIEW

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

Medical Technologists (Clinical Laboratory Scientists) are experts in the use of laboratory testing in the diagnosis, management, and treatment of disease. Graduates of the program are most commonly employed in hospitals and clinics, performing and interpreting clinical laboratory tests. Students in the program study the theoretical principles of clinical microbiology, chemistry, hematology, immunology and immunohematology. In each sub-discipline, students apply theory in laboratory and problem-based learning settings, and in supervised practice. After satisfactory completion of the first two years of the curriculum, students receive a certificate of study and are eligible to sit for national certifying examinations. Upon satisfactory completion of all program requirements, students receive a Master of Science in Allied Health. The MT Certificate program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

ADMISSIONS AND APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission. The Application deadline for Autumn 2010 professional admission is **March 1, 2010**.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents.
2. A minimum 3.0 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered in admission.
3. Completion of prerequisite courses.
4. Submission of official GRE scores.
5. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

PROGRAM PREREQUISITES

Students who wish to apply to the program must have completed an undergraduate degree from an accredited institution and all of the following program prerequisite courses or their equivalent with a C- or better by the end of Summer Quarter prior to enrollment in the professional program.

Math 150
Chemistry 121, 122, and 123
Statistics 145
Biology 113

Molecular Genetics 500
Microbiology 509
Molecular Biochemistry 311 and 312
or
Chemistry 251, 252, and Biochemistry 511

PROFESSIONAL CURRICULUM

This is an accredited coordinated program in medical technology. The curriculum includes all knowledge and practice skills required to become a registered medical technologist (Clinical Laboratory Scientist). Required courses include didactic and laboratory classes in microbiology, immunology, hematology, clinical chemistry, and immunohematology. In addition the program includes one quarter of supervised practice in affiliated hospitals and clinics. The curriculum includes a required summer quarter. The professional program is sequential in nature. There is no provision for evening enrollment although many of the graduate courses are offered late afternoon/evening. Students who complete this CP Graduate Track Program receive an MS degree in Allied Medical Professions and are eligible to take the Medical Technologist national certifying examinations.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the program in 10 quarters.

<i>Year 1 (Undergraduate)</i>	<i>Year 2 (Graduate)</i>	<i>Year 3 (Graduate)</i>
<p>Autumn Med Tech 400 (2) Med Tech 480.01/480.02 (3) Med Tech 525.01/525.02 (5)</p> <p style="text-align: right;">Total (10)</p>	<p>Autumn Med Tech 615.01/615.02 (6) Med Tech 645.01/645.02 (7) Med Tech 604 (2) Allied Medicine 795 (1)</p> <p style="text-align: right;">Total (16)</p>	<p>Autumn Med Tech 885 (2) AEE 885 (3) Allied Medicine 730 (3)</p> <p style="text-align: right;">Total (8)</p>
<p>Winter Med Tech 500.01/500.02 (6) Med Tech 510.01/510.02 (5)</p> <p style="text-align: right;">Total (11)</p>	<p>Winter Med Tech 635.01/635.02 (8) Med Tech 605 (2) Med Tech 620 (3)</p> <p style="text-align: right;">Total (13)</p>	<p>Winter AEE 886 (3) Allied Medicine 999 (2) Elective (3-5)</p> <p style="text-align: right;">Total (8-10)</p>
<p>Spring Med Tech 630.01/630.02 (5) Med Tech 570.01/570.02 (3) Med Tech 600.01/600.02 (3) Med Tech 602 (2)</p> <p style="text-align: right;">Total (13)</p>	<p>Spring Med Tech 669 (12) Med Tech 679 (2)</p> <p style="text-align: right;">Total (14)</p>	<p>Spring Allied Medicine 753 (3) Allied Medicine 892 (3) Allied Medicine 999 (2)</p> <p style="text-align: right;">Total (8)</p>
	<p>Summer Med Tech 689 (2) Med Tech 795 (2) Elective (3-5)</p> <p style="text-align: right;">Total (7-9)</p>	

ADDITIONAL INFORMATION

The division will admit students to the undergraduate program with sufficient preparation and ability to be accepted into the Graduate School. Students who do not perform at sufficient levels in the first year of the program may no longer be competitive for admission to the Graduate School. Students will be expected to complete an application to the Graduate School in Spring quarter of the first year of enrollment.

CONTACT INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic counselor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with a counselor in the Office of Student Affairs to discuss special circumstances which may apply.

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ATTACHMENT IIB: Semester Advising Sheets

THE OHIO STATE UNIVERSITY SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL LABORATORY SCIENCE, CERTIFICATION TRACK - SEMESTERS

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

The Medical Laboratory Science certification track prepares students to become nationally registered medical laboratory scientists (MLS) and work in clinical laboratory positions upon graduation. Graduates are eligible to sit for the national certifying examination.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission.

5. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents.
6. A minimum 2.5 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered. Although a 2.5 GPA is the minimum, the average GPA is typically higher than a 3.0
7. Completion of prerequisite courses by the end of Summer semester prior to enrollment in the professional program.
8. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

A minimum total of 126 semester credit hours, including all general graduation requirements, General Education Curriculum, program prerequisites, and professional curriculum.

General Education Curriculum (46 hours)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing (6 hours)	Historical Study (3 hours)
Mathematical and Data Analysis (6 hours)	Arts and Literature (6 hours)
Biological Science (5 hours)	Social Sciences (6 hours)
Physical Science (5 hours)	Elective Courses (6 hours)
Culture & Ideas or Historical Study (3 hours)	

Program Prerequisites (38-40 hours)

Students who wish to apply to the Medical Technology program must have completed all of the following program prerequisite courses or their equivalent with a C- or better unless otherwise noted by the end of Summer semester prior to enrollment in the professional program.

Math 1150 or higher
General Chemistry 1
General Chemistry 2*
Biology 1113
Statistics 1450
Microbiology 4090
Molecular Genetics *

Organic Chemistry Options
(1) Organic Chemistry 1* and General Biochemistry*
(2) Molbiochem 1 and Molbiochem 2

*Course must be completed with a D or better.

Professional Curriculum (56 hours)

The professional curriculum includes Medical Laboratory Science courses available to students who have been admitted to the professional program. It is completed in sequence and there is no provision for evening-only enrollment, however, a student may complete the program on a part-time basis. The program includes 10 weeks of clinical rotations in the final semester of enrollment.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Laboratory Science program in 8 semesters. The semester and year in which *some* courses are placed can be adjusted to meet the individual needs of students.

<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
Autumn AM Survey 1000 (1) Math 1150 or higher (5) Gen Chemistry 1 (5) GEC (3) GEC (3) Total (17)	Autumn Molbiochem 1 (5) or Org Chemistry 1 (4) Microbiology 4090 (4) Statistics 1450 (3) GEC (3) GEC (3) Total (17-18)	Autumn Phleb Lec/MLS 4400 (1) Phleb Lab/MLS 4405 (1) Micro I Lec/MLS 5000 (3) Micro I Lab/MLS 5005 (2) Hem Lec/MLS 5050 (5) Hem Lab/MLS 5055 (2) GEC (3) Total (17)	Autumn Chem Lec/MLS 5300 (5) Chem Lab/MLS 5305 (2) Immunohem Lec/MLS 5250 (5) Immunohem Lab/MLS 5255 (2) Prof Issues/MLS 5350 (1.5) Total (15.5)
Spring Gen Chemistry 2 (5) Biology 1113 (4) GEC (3) GEC (3) Total (15)	Spring Molbiochem 2 (5) or Gen Biochem (4) Mol Gen (4) GEC (3) GEC (3) Total (14-15)	Spring Micro II Lec/MLS 5100 (3) Micro II Lab/MLS 5105 (1) Immuno Lec/MLS 5200 (3) Immuno Lab/MLS 5205 (1) Microscopy Lec/MLS 5150 (1) Microscopy Lab/MLS 5155 (1) AM Research 5900(3) GEC (3) Total (16)	Spring Clinical Practice/MLS 5089 (8.5) Mol Tech Lec/MLS 5400(1.5) Mol Tech Lab/MLS 5405 (0.5) Interdis Studies/MLS 5600 (1) AM Management 5300(3) Total (14.5)

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic counselor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with a counselor in the Office of Student Affairs to discuss special circumstances which may apply.

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THE OHIO STATE UNIVERSITY SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL LABORATORY SCIENCE, MEDICAL SCIENCE TRACK

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

The Medical Technology Medical Science track is designed to prepare individuals for graduate school or post-baccalaureate professional programs in such areas as medicine, veterinary medicine, dentistry, optometry, physician's assistant, and others. This track is flexible and can be tailored to meet the career goals of the students. Graduates from this program are not eligible for the national certifying examination.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents. Off-quarter admissions are available for this track. Please refer to Professional Admissions website for details.
2. A minimum 2.50 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered.
3. Completion of prerequisite courses by the end of Summer quarter prior to enrollment in the professional program.
4. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

A minimum total quarter/semester credit hours required for graduation is to be determined.

General Education Curriculum (79-80 quarter hours – may vary if some taken in semesters)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing and Related Skills (10 hours)

Historical Study (10 hours)

Mathematical and Logical Analysis (9-10 hours)

Art and Humanities (10 hours)

Natural Sciences (20 hours)

Breadth Courses (10 hours)

Social Sciences (10 hours)

Diversity Courses (0-15 hours)

Program Prerequisites (50-51 quarter hours)

Students who wish to apply to the Medical Technology program must have completed at least 90 quarter credit hours (or the semester equivalent) including all of the following program prerequisite courses or their equivalent with a C- or higher unless otherwise noted by the end of the quarter/semester prior to enrollment in the professional program.

Math 150 or higher
Chemistry 121*
Chemistry 122*
Chemistry 123
Biology 113

Statistics 145
Chemistry 251* and 252* and Biochemistry 511*
Microbiology 509
Molecular Genetics 500*

*Course must be completed with a D or higher.

Professional Curriculum (34.5 semester hours)

The professional curriculum includes Medical Technology courses available to students who have been admitted to the professional program. Students can complete the program on a part-time basis, however, most courses are offered during the day.

Students who wish to complete additional prerequisite requirements for Medical School or other professional schools such as Optometry, Dentistry, Veterinary Medicine, Physician’s Assistant and others should consult the course requirements for those programs of study.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Technology Medical Science track program in 6 quarters and 4 semesters. It is assumed that students following this plan will begin Professional coursework (Year 3) in Autumn 2012. The course offerings for Years 3 & 4 (semesters) is a tentative plan and subject to change.

<i>Year 1(quarters) (semesters)</i>	<i>Year 2 (quarters)</i>	<i>Year 3 (semesters)</i>	<i>Year 4</i>
Autumn Qtr Allied Med 100 (1) Math 150 or higher (5) Chemistry 121 (5) GEC (5) Total (16)	Autumn Qtr Chemistry 251 (4) Microbiology 509 (5) Statistics 145 (5) Total (14)	Autumn Sem. Micro I Lec/MLS 5000 (3) Heme Lec/MLS 5050 (5) MLS Seminar/MLS 5890 (1) GEC (3) Elective (4) Total (16)	Autumn Sem. Chem Lec/MLS 5300 (5) ImmunoHem Lec/MLS 5250 (5) Elective (4) Total (14)
Winter Qtr Chemistry 122 (5) Biology 113 (5) GEC (5) Total (15)	Winter Qtr Chemistry 252 (4) GEC (5) GEC (5) Total (14)	Spring Sem. Micro II Lec/MLS 5100 (3) Immuno Lec/MLS 5200 (3) Microscopy Lec/MLS 5150 (1) AM Research (3) Elective (4) Total (14)	Spring Sem. Mol Tech Lec/MLS 5400 (1.5) MLS Seminar/MLS 5891 (1) AM Management (3) Elective (4) Elective (4) Total (13.5)
Spring Qtr Chemistry 123 (5) GEC (5) GEC (5) Total (15)	Spring Qtr Biochemistry 511 (5) Mol Genetics 500 (5) GEC (5) Total (15)		

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic advisor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with an advisor in the Office of Student Affairs to discuss special circumstances which may apply.

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**THE OHIO STATE UNIVERSITY
SCHOOL OF ALLIED MEDICAL PROFESSIONS****MEDICAL LABORATORY SCIENCE, MLT ARTICULATION TRACK - SEMESTERS**

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

The MLT Articulation Track was developed to allow certified MLT/CLTs to become eligible for the MLS certification exam through the American Society of Clinical Pathology (ASCP). To meet the eligibility requirements for the MLS(ASCP) exam, articulation students must be certified as an MLT or CLT, obtain a bachelor's degree from an accredited institution, and have at least three years clinical lab experience within the last ten years. Experience must be in all areas including Blood Banking, Chemistry, Hematology, Microbiology, Immunology and Clinical Microscopy. The articulation track in the Medical Technology program allows students to complete the requirements for a Bachelor's degree in two years or less if all prerequisites are completed prior to enrolling. The program can also be completed on a part-time basis.

ADMISSION & APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents. Off-quarter admissions are available for this track. Please refer to Professional Admissions website for details.
2. A minimum 2.50 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered in admission.
3. Completion of prerequisite courses by the end of Summer quarter or semester prior to enrollment in the professional program.
4. Proof of MLT certification in good standing through the American Society of Clinical Pathology (ASCP) or National Certifying Agency (NCA).
5. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

DEGREE REQUIREMENTS

The minimum total of quarter/semester credit hours required for graduation is to be determined.

General Education Curriculum (79-80 quarter hours – may vary if some taken in semesters)

Students must complete the General Education Curriculum (GEC) before graduating from the University.

Writing and Related Skills (10 hours)	Historical Study (10 hours)
Mathematical and Logical Analysis (9-10 hours)	Art and Humanities (10 hours)
Natural Sciences (20 hours)	Breadth Courses (10 hours)
Social Sciences (10 hours)	Diversity Courses (0-15 hours)

Program Prerequisites (40-41 quarter hours)

Students who wish to apply to the Medical Technology program must have completed at least 90 quarter credit hours (or the semester equivalent) including all of the following program prerequisite courses or their equivalent by the end of quarter/semester prior to enrollment in the professional program. **Courses with an asterisk (*) must be completed with a grade of C- or higher.**

- | | |
|---------------------|------------------------------|
| *Math 148 or higher | Molecular Genetics 500 |
| *Biology 113 | Chemistry 121, 122, and *123 |
| *Statistics 135 | Biochemistry 211 and 212 |

Professional Curriculum (34 semester hours)

The professional curriculum includes Medical Technology courses available to students who have been admitted to the professional program. It is completed in sequence and there is no provision for evening-only enrollment, however, a student may complete the program on a part-time basis.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the Medical Technology MLT Articulation track program in 4 semesters, depending on the amount of GECs the student needs to complete. It is assumed that students following this plan will begin Professional coursework in Autumn 2012. **All semester courses are subject to change.**

<i>Year 1 (Semesters)</i>	<i>Year 2 (Semesters)</i>
<p>Autumn Sem. Micro I Lec/MLS 5000 (3) Heme Lec/MLS 5050 (5) GEC (3) GEC (3)</p> <p style="text-align: right;">Total (14)</p>	<p>Autumn Sem. Chem Lec/MLS 5300 (5) Immuno hem Lec/MLS 5250 (5) Prof Issues/MLS 5350 (1.5) GEC (3)</p> <p style="text-align: right;">Total (14.5)</p>
<p>Spring Sem. Micro II Lec/MLS 5100 (3) Immuno Lec/MLS 5200 (3) AM Research (3) GEC (3)</p> <p style="text-align: right;">Total (12)</p>	<p>Spring Sem. Interdis Studies/MLS 5600 (1) AM Management (3) Mol Tech Lec/MLS 5400 (1.5) GEC (3-9)</p> <p style="text-align: right;">Total (8.5-14.5)</p>

ADDITIONAL INFORMATION

It is strongly recommended that prospective students attend an information session or schedule an appointment with an academic advisor in the Office of Student Affairs. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with an advisor in the Office of Student Affairs to discuss special circumstances which may apply.

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THE OHIO STATE UNIVERSITY
SCHOOL OF ALLIED MEDICAL PROFESSIONS

MEDICAL LABORATORY SCIENCE, COORDINATED GRADUATE PROGRAM -SEMESTERS

The School of Allied Medical Professions (SAMP) is a school in The Ohio State University College of Medicine. SAMP is nationally recognized as a leader in practice-based health care education. For more than five decades, SAMP has prepared students to achieve personal and professional excellence, as they pursue an exciting career in healthcare.

PROGRAM OVERVIEW

Medical Technologists (Medical Laboratory Scientists) are experts in the use of laboratory testing in the diagnosis, management, and treatment of disease. Graduates of the program are most commonly employed in hospitals and clinics, performing and interpreting clinical laboratory tests. Students in the program study the theoretical principles of clinical microbiology, chemistry, hematology, immunology and immunohematology. In each sub-discipline, students apply theory in laboratory and problem-based learning settings, and in supervised practice. After satisfactory completion of the first two years of the curriculum, students receive a certificate of study and are eligible to sit for the national certifying examination. Upon satisfactory completion of all program requirements, students receive a Master of Science in Allied Health. The MT Certificate program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

ADMISSIONS AND APPLICATION PROCEDURES

Applicants must meet the following minimum requirements and submit requested materials to be considered for admission.

1. An electronic application is available online at <http://www.professional.osu.edu/alliedmed.asp> which should be completed and submitted with all required supplemental documents.
2. A minimum 3.0 cumulative GPA is required in all coursework taken at all accredited institutions. All post-secondary coursework is considered in admission.
3. Completion of prerequisite courses.
4. Submission of official GRE scores.
5. A personal interview may be requested by the division. Knowledge of the profession and personal career goals will be evaluated at this time.

PROGRAM PREREQUISITES

Students who wish to apply to the program must have completed an undergraduate degree from an accredited institution and all of the following program prerequisite courses or their equivalent with a C- or better by the end of the Summer session prior to enrollment in the professional program.

Math 150
Chemistry 121, 122, and 123
Statistics 145
Biology 113

Molecular Genetics 500
Microbiology 509
Molecular Biochemistry 311 and 312
or
Chemistry 251, 252, and Biochemistry 511

PROFESSIONAL CURRICULUM

This accredited coordinated curriculum includes all knowledge and practice skills required to become a registered medical technologist (Clinical Laboratory Scientist). Required courses include didactic and

laboratory classes in microbiology, immunology, hematology, clinical chemistry, and immunohematology. In addition the program includes one quarter of supervised practice in affiliated hospitals and clinics. The curriculum includes a required summer semester. The professional program is sequential in nature. There is no provision for evening enrollment although many of the graduate courses are offered late afternoon/evening. Students who complete this CP Graduate Track Program receive an MS degree in Allied Medical Professions and are eligible to take the Medical Technologist national certifying examinations.

SUGGESTED SCHEDULING PLAN

The following plan demonstrates how students may complete the program in 7 semesters. **The course offerings for semesters are a tentative plan and subject to change.**

<i>Year 1 (Undergraduate)</i> <i>(Graduate)</i>	<i>Year 2 (Graduate)</i>	<i>Year 3</i>
<p>Autumn Semester Phleb Lec/MLS 4400 (1) Phleb Lab/MLS 4405 (1) Micro I Lec/MLS 5000 (3) Micro I Lab/MLS 5005 (2) Heme Lec/MLS 5050 (5) Heme Lab/MLS 5055 (2)</p> <p style="text-align: right;">Total (14)</p>	<p>Autumn Semester Chem Lec/MLS 5300 (5) Chem Lab/MLS 5305 (2) ImmunoHeme Lec/MLS 5250 (5) ImmunoHeme Lab/MLS 5255 (2) Prof Issues/MLS 5350 (1.5) AM Seminar (1)</p> <p style="text-align: right;">Total (16.5)</p>	<p>Autumn Semester Grad Educ/MLS 6885 (1) Ag Ed Research (5) AM Leadership (2) AM Grad Research (1)</p> <p style="text-align: right;">Total (9)</p>
<p>Spring Semester Micro II Lec/MLS 5100 (3) Micro II Lab/MLS 5105 (1) Immuno Lec/MLS 5200 (3) Immuno Lab/MLS 5205 (1) Microscopy Lec/MLS 5150 (1) Microscopy Lab/MLS 5155 (1) AM Research (3)</p> <p style="text-align: right;">Total (13)</p>	<p>Spring Semester Clinical Practice/MLS 5089 (8.5) Mol Tech Lec/MLS 5400 (1.5) Mol Tech Lab/MLS 5405 (0.5) AM Management (3)</p> <p style="text-align: right;">Total (13.5)</p>	<p>Spring Semester AM Teaching (2) AM Evidence Based Practice (2) AM Grad Research (1) Elective (4)</p> <p style="text-align: right;">Total (9)</p>
	<p>Summer Semester Interdis Studies/MLS 5600 (1) MLS Graduate Seminar (1) Elective (4)</p> <p style="text-align: right;">Total (6)</p>	

ADDITIONAL INFORMATION

The division will admit students to the undergraduate program with sufficient preparation and ability to be accepted into the Graduate School. Students who do not perform at sufficient levels in the first year of the program may no longer be competitive for admission to the Graduate School. Students will be expected to complete an application to the Graduate School in Spring semester of the first year of enrollment.

CONTACT INFORMATION

It is strongly recommended that prospective students schedule an appointment with the SAMP Director of Admissions and Recruitment. Detailed information can be accessed online at www.amp.osu.edu. Baccalaureate degree holders, transfer, international, and student athletes are strongly encouraged to meet with the Director of Admissions and Recruitment to discuss special circumstances which may apply.

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ATTACHMENT III

Curriculum Map

Required Courses (offered by the Unit)	Program Learning Goals		
	Goal #1: To communicate in a clear and effective manner with people from various socio-cultural backgrounds, both verbally and in writing.	Goal #2: To demonstrate critical thinking, professional decision making, and/or psychomotor skills necessary for safe and competent practice.	Goal #3: Integrate evidence-based practice and scholarship in making and prioritizing professional decisions.
Phlebotomy and the Medical Laboratory Environment (Lecture) MLS 4400	Intermediate	Intermediate	Beginning
Phlebotomy and the Medical Laboratory Environment (Laboratory) MLS 4405	Intermediate	Advanced	Intermediate
Medical Laboratory Microbiology I (Lecture) MLS 5000		Intermediate	Intermediate
Medical Laboratory Microbiology I (Laboratory) MLS 5005	Beginning	Intermediate	Intermediate
Medical Laboratory Hematology (Lecture) MLS 5050		Advanced	Intermediate
Medical Laboratory Hematology (Laboratory) MLS 5055	Beginning	Advanced	Intermediate
Medical Laboratory Microbiology II (Lecture) MLS 5100		Advanced	Advanced
Medical Laboratory Microbiology II (Laboratory) MLS 5105	Beginning	Intermediate	Intermediate
Medical Laboratory Microscopy (Lecture) MLS 5150		Intermediate	Beginning
Medical Laboratory Microscopy (Laboratory) MLS 5155	Beginning	Intermediate	Intermediate
Molecular Techniques in Medical Laboratory Science (Lecture) MLS		Intermediate	

5400			
Molecular Techniques in Medical Laboratory Science (Laboratory) MLS 5405	Beginning	Intermediate	
Professional Issues in Medical Laboratory Science MLS 5350	Intermediate	Intermediate	
Medical Laboratory Immunology (Lecture) MLS 5200		Intermediate	Intermediate
Medical Laboratory Immunology (Laboratory) MLS 5205	Beginning	Intermediate	Intermediate
Medical Laboratory Immunochemistry (Lecture) MLS 5250		Advanced	Advanced
Medical Laboratory Immunochemistry (Laboratory) MLS 5255	Beginning	Intermediate	Intermediate
Medical Laboratory Chemistry (Lecture) MLS 5300		Advanced	Advanced
Medical Laboratory Chemistry (Laboratory) MLS 5305	Beginning	Intermediate	Intermediate
Clinical Practice in Medical Laboratory Science (MLS 5089)	Advanced	Advanced	Advanced
Interdisciplinary Studies in Medical Laboratory Science (MLS 5600)		Advanced	
Management Principles & Human Resources for Health Care Professionals (AM 5300)	Beginning		
Research Design in Biomedical Sciences (AM 5900)		Beginning	Intermediate
Medical Laboratory Science Seminar MLS 5890	Intermediate		
Advanced Topics in Medical Laboratory Science MLS 5891	Intermediate		

Graduate Seminar MLS 6890	Intermediate		Intermediate
Graduate Education Practicum MLS 6885	Advanced	Intermediate	Advanced
(Allied Medicine Seminar AM 795)	Intermediate	Intermediate	Intermediate
(Managerial Leadership in Allied Health AM 730)	Advanced	Advanced	Advanced
(Allied Medicine Research AM 999)	Advanced	Advanced	Advanced
(Teaching in the Allied Health Professions AM 753)	Intermediate	Intermediate	Intermediate
(Evidence Based Practice AM 892)	Intermediate	Intermediate	Advanced
Required Courses (offered outside of the Unit)			
Mathematics 1150		Beginning	
General Chemistry I (Chemistry 121/122)		Beginning	
General Chemistry II (Chemistry 122/123)		Beginning	
Biology 1113		Beginning	
Statistics 1450		Beginning	
Microbiology 4090		Beginning	
(Molecular Genetics 500)		Beginning	
Organic Chemistry I (Chemistry 251/252)/ General Biochemistry (Biochemistry 511) or (Molbiochem 311/312)		Beginning	
(Agriculture Education Research Methods/Design AEE 885 and AEE 886)	Intermediate	Intermediate	Intermediate
General Education Courses	Beginning		