Doisy College of Health Sciences

http://www.slu.edu/doisy

Mardell Wilson, Ed.D., Dean

The Doisy College of Health Sciences (DCHS) incorporates Saint Louis University's long-standing tradition of excellence in health care education with modern innovations in interprofessional education (IPE), research and service. The College consists of the Departments of Biomedical Laboratory Science (1929), Health Informatics and Information Management (1936), Medical Imaging and Radiation Therapeutics (1981), Nutrition and Dietetics (1934), Occupational Science and Occupational Therapy (1992), Physician Assistant Education (1971), Physical Therapy and Athletic Training (PT-1933, AT-2008) and the Program in Health Science (2010). The College offers undergraduate, graduate, professional and certificate programs in these departments. Many of the departments are nationally ranked and all of them have a reputation for excellence in professional education.

The typical program for the undergraduate student includes course work at both the Medical Center and Frost campus as well as clinical experiences at one or more of the College's numerous affiliated clinical facilities and professional practice settings spread throughout the United States as well as international sites.

Understanding the unique contributions of various health care professionals is important for meeting the needs of an increasingly complex patient population. Students in the Doisy College learn how to work in collaborative health care teams to provide outstanding health care through participation in the Interprofessional Education Program (IPE). Because Doisy College offers a variety of health profession majors, the activities in the IPE program provide students multiple perspectives which include the widest overview of our complex health care delivery system. Working in teams on patient cases both as case studies and through clinical learning experiences, investigating the literature for the latest scientific insight, attending patient-care rounds and considering ethical issues in our health care system are just a few of the many ways the IPE Program enriches a student's understanding of health care.

Visit the Doisy College of Health Sciences on the web at: http://www.slu.edu/doisycollege.xml.

Special Admission Requirements and Procedures

Admission requirements and procedures for the programs vary, and prospective students should contact Brion Abel (dchs@slu.edu or 314.977.2570) recruitment specialist for Doisy College of Health Sciences, with specific questions.

All students that participate in clinical learning experiences are required to complete a criminal background check prior to the first clinical practicum. Additional criminal background checks may be required based on the contractual agreements with the College's clinical affiliate facilities. Further, drug screening is required for clinical practicum work. Prospective applicants are encouraged to consult with the chosen profession's governing or licensing organization for more detailed information before applying.

DCHS General Admission Requirements

Saint Louis University's Office of Admission, housed under the division of Enrollment and Retention Management begins reviewing freshman applications for admission and scholarship for the following year on a rolling basis beginning September 1. SLU also accepts the Common Application. If you apply using the Common Application, you will be considered for admission on the same terms and within the same timeframe as those who use SLU's general freshman application.

To receive priority consideration for University merit-based scholarships admission applications must be submitted by ***December 1***. Students who meet this deadline will be automatically considered for a range of Saint Louis University's merit-based scholarships. Applications submitted after December 1 will be given scholarship consideration based on availability of funds.

To be considered for SLU's Medical Scholars Program and/or SLU's Honors Program students are encouraged to visit www.slu.edu and/or contact the specific office(s) directly. Each program has a separate application and application procedures for students interested in the Medical Scholars as well as the Honors Program.

DCHS Programs with Established Special Admission Criteria

Certificate Programs in Medical Laboratory Science
The Biomedical Laboratory Science Department offers three certificate programs in Medical Laboratory Science. Specific program information is located in the Biomedical Laboratory Science Section of this catalog. For fall entry consideration, applicants should have their applications in by ***April 1***. Applications received after ***April 1*** will be reviewed only if spaces in the class remain available.

Certificate Program in Cytotechnology

The Biomedical Laboratory Science Department offers a certificate program in Cytotechnology. Specific program information is located in the Biomedical Laboratory Science Section of this catalog. For fall entry consideration, applicants should have their applications in by ***March 1***. Applications received after ***March 1*** will be reviewed only if spaces in the class remain available

Master of Athletic Training
The Master of Athletic Training program is designed both as a freshman entry five-year curriculum and a standalone two year post-baccalaureate program. Students desiring to pursue a degree in athletic training should apply to the program as entering freshmen, as transfer admission is on a space available basis. Students must be admitted into the Athletic Training Education Program. Due dates for applications are available on the Office of Undergraduate Admission website (BeABilliken.com). Post-baccalaureate candidates should apply through the graduate admission website: (graduate.slu.edu).

Master of Science in Health Sciences
The Master of Science in Health Sciences (MSHS) is a two-year, 36 credit hour program that will equip graduates with the tools and skills necessary to assume a variety of roles in health care that may involve teaching, research, administrative responsibilities and critical inquiry. Applications for admittance into the program should be received by ***February 1***. Applications received after ***February 1*** will be reviewed only if spaces in the class remain available. To learn more about the program and the application and admissions processes, please contact Brion Abel (dchs@slu.edu or 314.977.2570), recruitment specialist for Doisy College of Health Sciences.

Master of Science –Molecular Imaging & Therapeutics
Applicants seeking admission to the competitive entry, 12 month, post-baccalaureate program in Molecular Imaging and Therapeutics should consult the Medical Imaging and Radiation Therapeutics Department (314.977.8526) or visit the website (http://mit.slu.edu) for more information on programmatic details.

Master of Medical Science –Physician Assistant Program
Applicants seeking admission to the post-baccalaureate (M.M.S.) Physician Assistant Program should consult the PA department or visit the PA Program web site (http://prepa.slu.edu) for information.

Bachelor of Science in Occupational Science
For admission consideration into the Bachelor of Science in Occupational Science program, three years of natural science, three years of math courses and four years of English courses are required. There are also minimum GPA and ACT requirements for every program of study in order to be considered for admission.

Master of Occupational Therapy
The Master of Occupational Therapy Program is a competitive-entry, five-year curriculum for students who enter the program as freshmen. Students must apply by ***December 1*** for consideration into the BSOS/MOT program. Transfer students will be accepted at the sophomore and junior levels on a limited basis. Additionally, students may apply to the post-baccalaureate phase of the MOT program upon completion of a bachelor's degree. These students are encouraged to contact the department for assistance. Enrollment capacity is limited; therefore, applications for this post-baccalaureate phase must be received by ***January 15***.

Doctor of Physical Therapy
The Doctor of Physical Therapy Program is a competitive freshman-entry, six-year curriculum. Students should apply to the program as entering freshmen, as transfer admission into the program is very limited and may not be available. High school seniors applying for ***fall 2015*** admission have two options for acceptance into the SLU Program in Physical Therapy. Deadline for both options is ***December 1, 2014***.

1. Students with an ACT composite score of 30 or higher with math and science subsections scores of at least 28 (or equivalent SAT scores), a high school GPA of 3.85/4.0 and an outstanding high school academic record (with an emphasis placed on excellence in math and science courses), will be considered for early acceptance to the SLU Program in Physical Therapy. *
2. All other students with an ACT composite score of 25 or higher with no subsection below a 23 (or equivalent SAT scores) and a high school GPA of 3.2/4.0 are encouraged to apply for the standard selective admission process for the SLU Program in Physical Therapy. Students will be notified of their status by ***February 1, 2015***.

* If a student is not accepted through the early acceptance process, he/she will automatically be considered for the standard selective admission process if minimum requirements are met.

For admission to the Physical Therapy program, four years of mathematics, four years of science including biology and chemistry and four years of English are required. It is strongly recommended that one of those years be high school physics.

Pre-Physician Assistant Scholars Track
Freshman seeking acceptance into the Pre-Physician Assistant Scholars Track should contact Brion Abel (dchs@slu.edu or 314.977.2570), recruitment specialist for Doisy College of Health Sciences, for information on admission requirements and degree options.

Program Minimum GPA Admissions Criteria

The table below contains the minimum Grade Point Average (GPA) required for admission consideration in each program offered through Doisy College of Health Sciences.

Program	Freshman	Transfer[1]
Athletic Training	3.00	3.00
Medical Laboratory Science	3.00	2.50
Cytotechnology	3.00	2.50
Investigative and Medical Sciences	3.00	2.50
Health Information Management	2.50	2.50
Health Sciences	2.50	2.50
Magnetic Resonance Imaging	2.80	2.70
Nuclear Medicine Technology	2.80	2.70 Nutrition and
Dietetics	2.70	2.75
Occupational Science and		
Occupational Therapy	3.20	3.20
Physical Therapy	3.20	3.20
Radiation Therapy	2.80	2.70
Undeclared	2.00[2]	

Notes:
[1]*Transfer admission may not be available in some programs.*

[2]*Undeclared students are held to the minimum university cumulative GPA of 2.00. Such students must select and be accepted into a formal program, and subsequently complete all program requirements in order to graduate from Saint Louis University.*

Degrees Offered

The Doisy College of Health Sciences offers programs that lead to the following degrees

Bachelor of Science Degrees
Medical Laboratory Science
Cytotechnology
Exercise Science (***leading to*** a Doctor of Physical Therapy and Master of Athletic Training)
Investigative and Medical Sciences
Health Information Management
Health Sciences
Magnetic Resonance Imaging
Nuclear Medicine Technology
Nutrition and Dietetics
Occupation Science
Radiation Therapy

Graduate Degrees

Doctor of Physical Therapy
Physical Therapy

Master of Athletic Training
Athletic Training

Master Science in Health Informatics
Health Informatics and Information Management

Master of Medical Science
Physician Assistant

Master of Science in Health Sciences
Health Sciences

Master of Science in Molecular Imaging and Therapeutics
Medical Imaging and Radiation Therapeutics

Master of Science in Nutrition and Dietetics
Nutrition and Dietetics

Master of Occupational Therapy (Entry Level)
Occupational Therapy

For additional program information please contact Brion Abel (dchs@slu.edu or 314.977.2570), Doisy College of Health Sciences Recruitment Specialist.

Certificate Programs

Medical Laboratory Science
(Undergraduate and Post-baccalaureate | Categorical)
- Clinical Chemistry
- Clinical Hematology
- Clinical Microbiology

Cytotechnology (Post-baccalaureate)
Nutrition and Dietetics
- Dietetic Internship Verification Statement
- Didactic Program in Dietetics Verification Statement

Accreditation of Programs

Programs of the Doisy College of Health Sciences are accredited by the respective accreditation agencies as follows:

Athletic Training
Commission on Accreditation of Athletic Training Education
2201 Double Creek Drive, Suite 5006
Round Rock, TX 78664
(512)733-9700

Clinical Laboratory Science:
National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
8410 West Bryn Mawr Avenue, Suite 670
Chicago, IL 60631
(773) 714-8880

Cytotechnology:
Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the American Society of

Cytopathology (ASC), Cytotechnology Programs Review Committee (CPRC)
400 West 9th, Street Suite 201
Wilmington, DE 19801-1555
(312) 553-9355

Health Informatics & Information Management:
Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
233 N. Michigan Avenue
21st Floor
Chicago, IL 60601-5800

Nuclear Medicine Technology:
The Joint Review Committee on Educational Programs in Nuclear Medicine Technology
2000 W. Danforth Rd.
Suite 130, #203
Edmond, OK 73003
(405) 285-0546

Nutrition and Dietetics:
The Accreditation Council for Education in Nutrition and Dietetics (ACEND) the accrediting agency for the Academy of Nutrition and Dietetics
120 South Riverside Plaza, Suite 2000
Chicago, Illinois 60606-6995
(312) 899-0040 ext 5400

Occupational Therapy:
Accreditation Council for Occupational Therapy Education, (ACOTE), American Occupational Therapy Association, (AOTA)
4720 Montgomery Lane
P.O. Box 31220
Bethesda, MD 20824-1220
(301) 652-2682

Physical Therapy:
Commission on Accreditation in Physical Therapy Education (CAPTE)
American Physical Therapy Association (APTA)
1111 N. Fairfax Street
Alexandria, VA 22314
(703) 706-3245

Physician Assistant:
Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)
12000 Findley Road, Suite 150
Johns Creek, GA 30097
(770) 476-1224
http://www.arc-pa.org/

Radiation Therapy:
Joint Review Committee on Education in Radiological Technology, (JRCERT),
20 N. Wacker Drive, Suite 2850
Chicago, Illinois 60606-3182
(312) 704-5300

Program/Department Course Requirements

Specific course requirements vary by program/ department.

Non-Academic Requirements

Clinical internship experiences in clinical practice settings (i.e. hospitals, clinics, schools, etc.) are a required component of select Doisy College of Health Sciences Programs. Regulations require all students in programs with one or more clinical internships to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as clinical placement sites requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional licensure, certification and professional practice. Additional and program-specific information about the requirements may be obtained directly from the program.

Interprofessional Education (IPE)

Students in health related programs at Saint Louis University have the opportunity to study Interprofessional Education (IPE) as part of their programs. The IPE Program offers both Minor and Concentration options. Information on both programs may be found on the Interprofessional Education page as well as visiting http://ipe.slu.edu/.

Biomedical Laboratory Science

Tim R. Randolph, Ph.D., MT(ASCP)
Chair

The Department of Biomedical Laboratory Science (BLS) offers three separate degree programs: Medical Laboratory Science (MLS), Cytotechnology (CT), and Investigative and Medical Sciences (IMS) and four certificate programs in the areas of cytotechnology, medical chemistry, medical hematology, and medical microbiology. Pre-Medicine, Pre-Physician Assistant and other pre-professional curricular tracks are options in all three programs. Consult the respective program's website for more information.

Medical Laboratory Science program website:
http://www.slu.edu/x24731.xml

Cytotechnology program website
https://www.slu.edu/x16887.xml

Investigative and Medical Sciences program website:
http://www.slu.edu/x24730.xml

Faculty:
Elizabeth Blessing, PhD, MLS(ASCP)^{CM}
Donna Duberg, MA, MS, MT(ASCP)SM
Uthayashanker Ezekiel, PhD, MB(ASCP)^{CM}
Mona Hebert, BS, MLS(ASCP)^{CM}
Rita M. Heuertz, PhD, MT(ASCP)
Larry List, MS, PA(ASCP), CT(ASCP)^{CM}
Tim R. Randolph, PhD, MT(ASCP), Chair
Amanda Reed, MAE, MLS(ASCP)^{CM}

Medical Laboratory Science Program Description:

The Bachelor of Science in Medical Laboratory Science (MLS) degree prepares graduates for a career as a health care professional in laboratory medicine. The curriculum provides students with a strong science foundation (chemistry, biology, and math), medically applied courses (BLS & MLS), and a 21 week practicum in the clinical laboratory. MLS graduates are prepared to manage, conduct and interpret a wide spectrum of laboratory testing to include hematology, chemistry, microbiology, immunology, transfusion medicine, and molecular diagnostics. Results of these tests are used to evaluate the health status of individuals, diagnose disease, and monitor treatment efficacy. Progression through the program is based on meeting academic, psychomotor, and professional behavior requirements. Upon successful completion of the program, the graduate is eligible for national certification as a Medical Laboratory Scientist or equivalent. In addition to working in diagnostic, research and other laboratories, many graduates continue their education in medical school, graduate school, and other professional programs.

Note: ***All applicants must meet the professional performance standards required for the profession. These standards may be viewed by visiting http://www.slu.edu/x2356.xml .***

Non-academic Requirements:
Clinical internship experiences in clinical practice settings (i.e. hospitals, clinics, reference labs, etc.) are a required component of the medical laboratory science curriculum. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and professional practice.

Medical Laboratory Science (BS)

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature or above	3
Fine Arts Elective (*ART-104, ARTH-100/101, any applied art)*			3
Social Science Elective *(SOC-110/110/120, HIST-111/112, PSY-101)*			3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
Philosophy or Theology Elective (200 or above)			3
MATH	141	Pre-Calculus	3
MATH	130	Elementary Statistics w/ Computers	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Molecular Cell Biology I	3
CHEM	163	General Chemistry I	3
CHEM	165	General Chemistry I Lab	1
CHEM	164	General Chemistry II	3
CHEM	166	General Chemistry II Lab	1
CHEM	342	Prin of Organic Chemistry I	3
CHEM	344	Prin of Organic Chemistry I Lab	1
CHEM	343	Principles of Organic Chemistry II	3
CHEM	345	Organic Chemistry Lab II	1
		or	
CHEM	320	Analytical Chemistry I (for Org II)	3
CHEM	322	Analytical Chemistry I Lab	1
PPY	254	Human Physiology	4
IPE	110	Intro to Interprofessional Health Care	1
HCE	201	Health Care Ethics	3
		Subtotal	62

Required Biomedical Laboratory Science Courses

BLS	110	Found. of Medical Laboratory Science	1
BLS	115	Foundations of MLS Lab	1
BLS	311	Urinalysis & Body Fluids	2
BLS	411	Medical Chemistry I	3
BLS	412	Medical Chemistry II	2
BLS	413	Prin. & Tech. in Molecular Biology	1
BLS	421	Hematology	4
BLS	422	Hemostasis and Thrombosis	2

BLS	431	Immunohematology	3
BLS	441	Medical Immunology	4
BLS	451	Medical Microbiology	4
BLS	461	Rsch Design/Critique/Presentation	3
BLS	463	Senior Seminar	1
BLS	485	Research	3
MLS	315	Urinalysis & Immunology Lab	1
MLS	320	Principles of Clinical Education	1
MLS	330	Clinical Laboratory Management	1
MLS	415	Analytical Chemistry Lab	2
MLS	416	Molecular Biology Lab	2
MLS	425	Hematology Lab	1
MLS	435	Immunohematology Lab	1
MLS	452	Medical Bacteriology	2
MLS	453	Medical Mycology	1
MLS	454	Medical Parasitology	1
MLS	455	Medical Bacteriology Lab	2
MLS	456	Medical Mycology & Parasitology Lab	1
MLS	461	Advanced Topics & Case Correlations	2
MLS	470	Clin Chem Routing Testing Practicum	2
MLS	471	Clinical Chemistry Routine Testing	1
MLS	472	Clin Chem Special Testing Practicum	1
MLS	473	Clin Chem Special Testing	1
MLS	474	Clinical Hematology Practicum	2
MLS	475	Clinical Hematology	1
MLS	476	Clinical Hemostasis Practicum	1
MLS	477	Clinical Phlebotomy Practicum	1
MLS	478	Clinical Immunohematology Practicum	2
MLS	479	Clinical Immunohematology	1
MLS	480	Clinical Microbiology Practicum	3
MLS	481	Clinical Microbiology	2
MLS	482	Clinical Urinalysis Practicum	1
		Subtotal	71
		Total	**133**

Cytotechnology (CT) Program Description:

The Bachelor of Science in Cytotechnology (CT) degree prepares graduates for a career in a specialized area of laboratory medicine. The cytotechnologist is a health care professional whose primary responsibility is the microscopic examination of cell samples for morphologic changes that indicate infectious disease or malignancy. The cytotechnologist detects subtle changes in the appearance of the cytoplasm and nucleus of the cells consistent with a variety of disease states. The majority of the workload of a cytotechnologist is in the evaluation of PAP smears, fine needle biopsies from lymph nodes and other tissues. Results of cytotechnology analyses assist in the diagnosis of infectious, pre-cancerous and malignant disease. The curriculum provides students with a strong science foundation (chemistry, biology, and math), cytotechnology courses, and an 8 week practicum in cytotechnology laboratories. Progression through the program is based on meeting academic, psychomotor, and professional behavior requirements. Upon successful completion of the program, the graduate is eligible for national certification as a Cytotechnologist. In addition to working in clinical cytotechnology labs many graduates continue their education in medical school, graduate school, and other professional programs. A post-baccalaureate certificate program in Cytotechnology is also available for students who have earned a BS degree in a science area. Information on the certificate option is located at the end of this section.

Note:* All applicants must meet the professional performance standards required for the profession. These standards may be viewed online by visiting** ***http://www.slu.edu/biomedical-laboratory-science/future-students/cytotechnology/professional-performance-standards

Non-academic Requirements:

Clinical internship experiences in clinical practice settings (i.e. hospitals, clinics, reference labs, etc.) are a required component of the cytotechnology curriculum. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and professional practice.

Cytotechnology (BS)

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature or above	3
Fine Arts Elective *(ART-104, ARTH-100/101, any applied art)*			3
Social Science Elective *(SOC-110/110/120, HIST-111/112, PSY-101)*			3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
Philosophy or Theology Elective (200 or above)			3
MATH	141	Pre-Calculus	3
MATH	130	Elementary Statistics w/ Computers	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Molecular Cell Biology I	3
CHEM	163	General Chemistry I	3
CHEM	165	General Chemistry I Lab	1
CHEM	164	General Chemistry II	3
CHEM	166	General Chemistry II Lab	1
CHEM	342	Prin of Organic Chemistry I	3
CHEM	344	Prin of Organic Chemistry I Lab	1

CHEM	343	Prin of Organic Chemistry II	3
CHEM	345	Prin of Organic Chemistry II Lab	1
ANAT	100	Human Anatomy	3
PPY	254	Human Physiology	4
IPE	110	Intro to Interprofessional Health Care	1
HCE	201	Health Care Ethics	3
XXX	XXX	Electives	9
		Subtotal	74

Required Biomedical Laboratory Science Courses

BLS	110	Found. of Medical Laboratory Science	1
BLS	115	Found. of Medical Lab Science Lab	1
BLS	413	Prin. & Tech. in Molecular Biology	1
BLS	441	Medical Immunology	4
BLS	451	Medical Microbiology	4

Required Medical Laboratory Science Courses

MLS	330	Clinical Laboratory Management	1
MLS	416	Molecular Biology Laboratory	2
MLS	452	Medical Bacteriology	2
MLS	455	Medical Bacteriology Lab	2
		Subtotal	18

Required Cytotechnology Courses

CYTO	400	Foundations of Cytology	3
CYTO	410	Female Genital Tract I	3
CYTO	411	Female Genital Tract II	1
CYTO	420	Female Genital Tract III	3
CYTO	430	Processing Laboratory Practicum	2
CYTO	440	Respiratory and Oral Cytology	3
CYTO	460	Body Fluid Cytology	3
CYTO	470	Gastrointestinal & Genitourinary Cyto	3
CYTO	480	Fine Needle Aspiration Cytology	4
CYTO	490	Advanced Practices in Cytology Pract.	8
		Subtotal	33
		Total	**125**

Investigative and Medical Sciences Program Description:

The Bachelor of Science in Investigative and Medical Sciences (IMS) program is primarily designed as a preparatory degree for students planning advanced study in the medical sciences to include medical school, physician assistant school, dental school, veterinary school, pharmacy school, graduate school, etc. The IMS curriculum offers a strong base in both basic and medically applied sciences. The curriculum provides graduates with the knowledge, skills, and attitudes that make them strong candidates for medical school, graduate school, or other professional programs. The curriculum requires a minimum of 24 flexible hours in an "Area of Concentration" (*AOC*) that can be used to earn a second major, minor, certificate, or combinations to meet personal and/or professional goals. Students are individually advised in selecting courses to meet the *AOC* requirement. Students can combine the IMS degree with a second major or minor in Forensic Science offered through the Department of Sociology and Criminal Justice to enhance their qualifications for employment or advanced study in forensics. Many curriculum tracks are available to include the **Medical Scholar** track. Progression through the program is based on meeting academic, psychomotor, and professional behavior requirements. Most IMS graduates pursue advanced study. However, some directly enter the workforce in fields such as medical research, pharmaceutical sales, biotechnology labs, and crime labs.

Investigative and Medical Sciences (BS)
(Standard Option)

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature (or above)	3
Fine Arts Elective *(ART-104, ARTH-100/101, any applied art)*			3
Social Science Elective *(SOC-110/110/120, HIST-111/112, PSY-101)*			3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
Philosophy or Theology Elective (200 or above)			3
MATH	141	Pre-Calculus	3
MATH	130	Elementary Statistics w/Computers	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Molecular Cell Biology I	3
CHEM	163	General Chemistry I	3
CHEM	165	General Chemistry I Lab	1
CHEM	164	General Chemistry II	3
CHEM	166	General Chemistry II Lab	1
CHEM	342	Prin of Organic Chemistry I	3
CHEM	344	Prin of Organic Chemistry I Lab	1
CHEM	343	Prin of Organic Chemistry II	3
CHEM	345	Prin of Organic Chemistry II Lab	1
PPY	254	Human Physiology	4
IPE	110	Intro to Interprofessional Health Care	1
HEC	201	Health Care Ethics	3

		Subtotal	62

Required Investigative and Medical Sciences Courses

BLS	110	Found. of Medical Laboratory Science	1
BLS	115	Found. of Med Lab Science Lab	1
BLS	311	Urinalysis & Body Fluids	2
BLS	411	Medical Chemistry I	3
BLS	412	Medical Chemistry II	2
BLS	413	Prin. & Tech. in Molecular Biology	1
BLS	421	Hematology	4
BLS	422	Hemostasis & Thrombosis	2
BLS	431	Immunohematology	3
BLS	441	Medical Immunology	4
BLS	451	Medical Microbiology	4
BLS	461	Research Design/Critique/Presentation	3
BLS	462	Senior Synthesis (or 485 Research)	3
BLS	463	Senior Seminar	1

		Subtotal	34

*Plus a **minimum** of 24hours in an area of concentration (AOC):*

Area of Concentration electives (minimum)			24
		Subtotal	24
		Total	**120**

Additional requirements for Pre-med option

Courses:

MATH	142	Calculus I	4
PHYS	131	Physics I	3
PHYS	132	Physics I Lab	1
PHYS	133	Physics II	3
PHYS	134	Physics II Lab	1
		Subtotal	12
		Total	**132**

Certificate in Medical Laboratory Science (CMLS) Program Description:

The Medical Laboratory Science (MLS) Program offers *undergraduate and post-baccalaureate* certificate (categorical) programs in three laboratory-specific disciplines: Medical Chemistry, Medical Hematology, and Medical Microbiology. Each of the certificate curricula provides students with a strong science background, medically applied courses, and corresponding practicum experiences in the clinical laboratory. Each program consists of two full semesters of didactic coursework and a subsequent clinical practicum that varies in length between 5-7 weeks. Clinical experiences are scheduled at the convenience of BLS Department affiliate sites. Thus, the typical program takes between 12-18 months to complete.

CMLS graduates are prepared to manage and conduct a wide spectrum of laboratory testing relative to the laboratory discipline studied. Results of these tests are used to evaluate the health status of individuals, diagnose disease, and monitor treatment efficacy. Progression through the program is based on meeting academic, psychomotor, and professional behavior requirements. Upon successful completion of the program, the graduate is eligible for national certification as a categorical medical laboratory professional. In addition to working in diagnostic, research and other laboratories, many graduates continue their education in medical school, graduate school, and other professional programs.

General Prerequisites:

Concurrent enrollment at Saint Louis University or completion of a conferred degree from a regionally accredited college/university with a major in biological science or chemistry is required. Students must complete a combination of 30 semester hours (45 quarter hours) of biology, chemistry and/or medical sciences courses for program admission consideration.

Science-based required coursework consists of a minimum of 30 credit hours and must contain concepts in biology, inorganic chemistry, organic chemistry, and human physiology. Courses in genetics, cellular and molecular biology, and biochemistry are recommended. Other required coursework includes a minimum of 3 credit hours of mathematics at a level of pre-calculus or above and 3 credit hours of statistics. Depending on the certificate program chosen, students may be able to take the math or statistics requirement while completing the program.

Applicants wishing to apply for a certificate program must have a 2.5 minimum cumulative GPA on a 4.0 scale to include a 2.5 minimum science/math GPA ("C") in all biological sciences, chemistry, and math for admissions consideration.

Admissions Process:

The first step in the admissions process for all students interested in pursuing a certificate in medical laboratory science is to contact the MLS certificate program coordinator Amanda Reed at areed19@slu.edu or by phone at 314.977.8686. The prospective student will be asked to submit a copy of his/her transcript indicating all coursework from all colleges and universities attended for evaluation. Student-issued transcripts are acceptable at this stage of the process. Preliminary unofficial applicant status will then be determined. Students who meet the prerequisite requirements will be invited to formally apply to the program following the appropriate process identified next.

Completion of a Curricular Update Form by the MLS certificate program coordinator is required for current SLU students to add a CLS certificate to their academic plan. ***Since these students are in the process of completing their***

undergraduate studies, they are considered as undergraduate applicants and as such fall under undergraduate fees and general standards.

Students who already hold a Bachelor's degree will be instructed to apply through ***graduate admissions***.

Official transcripts are required as part of the graduate admissions process. Specifics regarding these transcripts as well as other admissions requirements are located on the graduate admissions page found at www.slu.edu. ***These students are considered as post-baccalaureate applicants and as such fall under post-baccalaureate fees and general standards***.

The number of students admitted into each certificate program is based on the availability of clinical placement sites for practicum experiences. No student will be admitted until clinical placement for practicum experiences has been secured. In the event of a limited number of available placement spots, a competitive entry process based on GPA, letters of recommendation and previous coursework will be used to admit students. Admission decisions will be made on or before June 1.

Note: The certificate will not be awarded prior to student completion of a recognized baccalaureate degree as detailed above.

All applicants must meet the professional performance standards required for the profession. These standards may be viewed online by visiting http://www.slu.edu/x2356.xml .

Non-academic Requirements:
Clinical internship experiences in clinical practice settings (i.e. hospitals, clinics, reference labs, etc.) are a required component of the medical laboratory science certificate curricula. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and professional practice.

Certificate in Medial Laboratory Science (CMLS) - Chemistry

Fall Semester			
BLS	411	Medical Chemistry I	3
BLS	441	Medical Immunology	4
MLS	415	Analytical Chemistry Laboratory	2
PHIL/THEO		Elective (200 or above)	3
		Subtotal Required	12
Optional Fall Enhancement Courses:			
BLS	421	Hematology	4
MLS	425	Hematology Laboratory	1
		Subtotal Optional	5
Spring Semester			
BLS	311	Urinalysis & Body Fluids	2
MLS	315	Urinalysis & Serology Laboratory	1
MLS	320	Principles of Clinical Education	1
MLS	330	Clinical Laboratory Management	1
BLS	412	Medical Chemistry II	2
BLS	413	Prin. & Tech. in Molecular Biology	1
MLS	462	Adv. Topics/Case Corr-Clin Chem	1
IPE	110	Intro. to Interprofessional Education	1
HCE	201	Healthcare Ethics	3
		Subtotal Required	13
Optional Spring Enhancement Courses:			
BLS	431	Immunohematology	3
MLS	435	Immunohematology Laboratory	1
		Subtotal Optional	4
Summer Semester			
MLS	416	Molecular Biology Laboratory	2
MLS	470	Clinical Chemistry Routine Practicum	2
MLS	471	Clinical Chemistry Routine Testing	1
MLS	472	Clin. Chem Special Testing Practicum	1
MLS	473	Clinical Chemistry Special Testing	1
MLS	477	Clinical Phlebotomy Practicum	1
MLS	482	Clinical Urinalysis Practicum	1
		Subtotal Required	9
		Total Required	**34**
		Total Optional Credits	**9**
		Maximum Total Credits	**43**

Certificate in Medical Laboratory Science (CMLS) - Hematology

Fall Semester			
BLS	421	Hematology	4
BLS	425	Hematology Laboratory	1
BLS	441	Medical Immunology	4
PHIL/THEO		Elective (200 or above)	3
		Subtotal Required	12
Optional Fall Enhancement Courses:			
BLS	411	Medical Chemistry I	3
MLS	415	Analytical Chemistry Laboratory	2
		Subtotal Optional	5
Spring Semester			
BLS	311	Urinalysis & Body Fluids	2

MLS	315	Urinalysis & Serology Laboratory	1
MLS	320	Principles of Clinical Education	1
MLS	330	Clinical Laboratory Management	1
BLS	413	Prin. & Tech. in Molecular Biology	1
BLS	422	Hemostasis and Thrombosis	2
MLS	463	Adv. Topics/Case Corr-Hematology	1
IPE	110	Introduction to Interprofessional Education (IPE)	1
HCE	201	Healthcare Ethics	3
		Subtotal Required	13

Optional Spring Enhancement Courses:

BLS	412	Medical Chemistry II	2
BLS	431	Immunohematology	3
MLS	435	Immunohematology Laboratory	1
		Subtotal Optional	6

Summer Semester

MLS	416	Molecular Biology Laboratory	2
MLS	474	Clinical Hematology Practicum	2
MLS	475	Clinical Hematology Testing	1
MLS	476	Clinical Hemostasis Practicum	1
MLS	477	Clinical Phlebotomy Practicum	1
MLS	482	Clinical Urinalysis Practicum	1
		Subtotal Required	8
		Total Required	**33**
		Total Optional Credits	**11**
		Maximum Total Credits	**44**

Certificate in Medical Laboratory Science (CMLS) - Microbiology

Fall Semester

BLS	441	Medical Immunology	4
BLS	451	Medical Microbiology	4
HCE	201	Health Care Ethics	3
PHIL/THEO		Elective (200 or above)	3
		Subtotal	14

Spring Semester

MLS	320	Principles of Clinical Education	1
MLS	330	Clinical Laboratory Management	1
MLS	413	Prin. & Tech. in Molecular Biology	1
MLS	452	Medical Bacteriology	2
MLS	455	Medical Bacteriology Laboratory	2
MLS	453	Medical Mycology	1
MLS	454	Medical Parasitology	1
MLS	456	Medical Mycology/Parasitology Lab	1
MLS	464	Adv. Topics/Case Corr-Microbiology	1
IPE	110	Intro. to Interprofessional Education	1
		Subtotal	12

Summer Semester

MLS	416	Molecular Biology Laboratory	2
MLS	477	Clinical Phlebotomy Practicum	1
MLS	480	Clinical Microbiology Practicum	3
MLS	481	Clinical Microbiology Testing	2
		Subtotal	8
		Total	**34**

Certificate in CYTOTECHNOLOGY (CCT) Program Description

The Cytotechnology (CT) Program offers a one-year post-baccalaureate certificate program in cytotechnology. The certificate curriculum provides students with a strong science background, medically applied courses, and corresponding practicum experiences in the cytotechnology laboratory. The cytotechnologist is a health care professional whose primary responsibility is the microscopic examination of cell samples for morphologic changes that indicate infectious disease or malignancy. Cytotechnologists detect clues to disease in the delicate patterns of the cytoplasm and nucleus of the cells. The majority of the workload of a Cytotechnologist is in the evaluation of PAP smears, fine needle biopsies from lymph nodes and other tissues. Results of cytotechnology analyses assist in the diagnosis of infectious, pre-cancerous and malignant disease. Progression through the certificate program is based on meeting academic, psychomotor, and professional behavior requirements. The didactic curriculum culminates in an 8 week practicum in cytotechnology laboratories. Upon successful completion of the certificate program, the graduate is eligible for national certification as a Cytotechnologist. In addition to working in clinical cytotechnology labs many graduates continue their education in medical school, graduate school, and other professional programs.

General Prerequisites:
A conferred degree from a regionally accredited college/university is required for program admission consideration. Students must have completed at least 28 semester hours in the biological sciences and chemistry of which at least 20 semester hours must be in biology and at least 8 semester hours in chemistry. In addition, students must have at least 3 semester hours of mathematics at a level of pre-calculus or above and at least 3 semester hours in statistics.

Applicants wishing to apply for a certificate program must have a 2.5 minimum cumulative GPA on a 4.0 scale to include a 2.5 minimum science/math GPA ("C") in all biological sciences, chemistry, and math for admissions consideration.

Admissions Process:
The first step in the admissions process for all students interested in pursuing a certificate in Cytotechnology is to contact the Cytotechnology Program Director Larry List at listlw@slu.edu or by phone at 314.977.8685. The prospective student will be asked to submit a copy of his/her transcript

indicating all coursework from all colleges and universities attended for evaluation. Student-issued transcripts are acceptable at this stage of the process. Preliminary unofficial applicant status will then be determined. Students who meet the prerequisite requirements will be invited to formally apply to the program following the appropriate process identified next.

Students must already hold a Bachelor's degree and will be instructed to apply through ***graduate admissions***. Official transcripts are required as part of the graduate admissions process. Specifics regarding these transcripts as well as other admissions requirements are located on the graduate admissions page found at www.slu.edu. ***These students are considered as post-baccalaureate applicants and as such fall under post-baccalaureate fees and general standards***.

The number of students admitted into the Cytotechnology certificate program is based on the availability of clinical placement sites for practicum experiences. No student will be admitted until clinical placement for practicum experiences have been secured. In the event of a limited number of available placement spots, a competitive entry process based on GPA, letters of recommendation and previous coursework will be used to admit students. Admission decisions will be made on or before May 1.

All applicants must meet the professional performance standards required for the profession. These standards may be viewed on line by visiting:
http://www.slu.edu/biomedical-laboratory-science/future-students/cytotechnology/professional-performance-standards

Non-academic Requirements:
Clinical internship experiences in clinical practice settings (i.e. hospitals, clinics, reference labs, etc.) are a required component of the Cytotechnology certificate curricula. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and professional practice.

Summer Semester (1st Monday in June)

Required Medical Laboratory Science Courses			
MLS	413	Prin. & Tech. in Molecular Biology	1
Required Cytotechnology Courses			
CYTO	400	Foundations of Cytology	3
CYTO	410	Female Genital Tract I	3
		Subtotal	7

Fall Semester

Required Medical Laboratory Science Courses			
MLS	416	Molecular Biology Laboratory	2
Required Cytotechnology Courses			
CYTO	411	Female Genital Tract II	1
CYTO	420	Female Genital Tract III	3
CYTO	440	Respiratory and Oral Cytology	3
CYTO	460	Body Fluid Cytology	3
CYTO	470	Gastrointestinal & Genitourinary Cyto	3
		Subtotal	15

Spring Semester

Required Medical Laboratory Science Courses			
MLS	330	Clinical Laboratory Management	1
Required Cytotechnology Courses			
CYTO	430	Processing Laboratory Practicum	2
CYTO	480	Fine Needle Aspiration Cytology	4
CYTO	490	Adv. Practices in Cytology Practicum	8
		Subtotal	15
		Total	**37**

Health Informatics and Information Management

Teresa Neal, MHA, RHIA, Interim Program Director
http://www.slu.edu/x2374.xml

Faculty:
Julie Howe, MBA, D-ABMDI
Teresa Neal, MHA, RHIA
Deborah Seale, PhD

Health Information Management is a unique program for students interested in the study of medical sciences, information technology, legal concepts and business administration. Faculty within the Department of Health Informatics and Information Management, as well as adjunct faculty who are professionals in the health information management field, prepare the graduate to take the nationally recognized credentialing examination offered by the American Health Information Management Association. These graduates are primed for a tremendous variety of rapidly growing employment opportunities in all venues of the health care industry. These opportunities include, but are not limited to: working with healthcare organization leadership to optimize the use of patient and organizational data in meaningful ways; and to make decisions concerning quality of care, patient safety, and organizational operations; working with patients and families to understand their health information and develop their personal health record; and working with healthcare providers to optimize their use of technology to manage their data and operational needs. The department offers an undergraduate degree in health information management and a graduate degree in health informatics.

The program in Health Information Management offers several curricular options to allow the student to emphasize a specific concentration to complement their health information management foundation. These emphases include a minor in business administration, information technology management, or legal studies. Information in healthcare is now a tremendously valuable asset to both administrators and clinicians. The health information management program can also establish a strong foundation for students interested in pursuing pre-med scholar, pre-professional, and pre-physician assistant degrees. It is the student's responsibility to remain current on the requirements for each of the curriculum requirements. The most recent information will be in the Student Handbook for the Department of Health Informatics and Information Management in addition to the department's web page. http://www.slu.edu/x2374.xml

Health Information Management (BS)

ENGL	190	Adv Strategies of Rhetoric & Rsh	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)			
CMM	120	Public Speaking	*3*
PHIL	*105*	*Introduction to Philosophy*	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	XXX	History	3
PSY	101	General Psychology	3
MATH	120	College Algebra	3
STAT	110	Statistics	3
BIO		Biology or other Science Elective	3-4
ECON	190	Economics	3
HSCI	330	Anatomy & Physiology I	4
HSCI	340	Anatomy & Physiology II	4
ITM	200	Intro to Info Technology Mgmt	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3

Health Information Management (BS)/Business Minor

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	XXX	History	3
PSY	101	General Psychology	
(or other Social Science- *Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics*)			3
MATH	120	College Algebra	3
MATH	132*	Survey of Calculus	3
BIO		Biology or other Science Elective	3-4
ECON	190	Economics	3
HSCI	330	Anatomy & Physiology I	4
HSCI	340	Anatomy & Physiology II	4
ITM	200	Intro to Info Technology Mgmt	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3
ACCT	220	Financial Accounting	3
ACCT	222	Managerial Accounting	3
OPM	207	Intro Business Statistics	3
FIN	301	Principles of Finance	3
MGT	300	Mgmt Theory & Practice	3
MKT	300	Intro to Marketing Mgmt.	3
Two Business Electives to be Chosen From:			
OPM	305	Intro Mgmt Science & Operations	

		Management	3
ECON	312	Intermediate Microeconomics	3
ECON	314	Intermediate Macroeconomics	3
IB	200	Intro to International Business	3
MGT	218	Legal Environment of Business	3

*Prerequisite for OPM 305. If survey of calculus not taken, another class must be substituted with permission from your advisor.

Requirements for the minor are determined by the John Cook School of Business. It is the student's responsibility to remain current on the requirements for the Business Minor.

Health Information Management (BS)/Information Technology Minor

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)			
CMM	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
XXX		Philosophy or Theological Studies	3
HIST	XXX	History	3
PSY	101	General Psychology	3
MATH	120	College Algebra	3
OPM	207	Intro Business Statistics	3
BIO		Biology or other Science Elective	3-4
HSCI	330	Anatomy & Physiology I	4
HSCI	340	Anatomy & Physiology II	4
ITM	200	Intro to Info Technology Mgmt	3
XXX		Elective	3
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3

Twelve hours to be chosen from:

ITM	250	Spreadsheet & Database Productivity	3
ITM	310	Program Development Techniques	3
ITM	320	Object Oriented Programming	3
ITM	330	Database Management Systems	3
ITM	345	Web site Design & Development	3
ITM	350	Information Security Management	3
ITM	360	Global Information Mgmt	3
ITM	370	Business Analytics & Modeling	3
ITM	380	Project Management	3
ITM	410	Systems Analysis & Design	3
ITM	435	Data Communications & Networking	3
ITM	450	Web-based Applications	3
ITM	460	Business Process Implementation	3
ITM	490	Enterprise Systems Practicum	3

Health Information Management (BS)/Pre-Physician Assistant Scholars

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)			
XXX		Communications	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
XXX		Philosophy or Theological Studies	3
MATH	120	College Algebra	3
STAT	110	Statistics	3
BIO	104	Principles of Biology I	4
BIO	106	Principles of Biology II	4
BIO	302	Cellular Biochem & Mole Biology I	3
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/Lab	4
CHEM	342	Organic Chemistry I/Lab	4
CHEM	343	Organic Chemistry II/Lab	4
CLS	352	Medical Microbiology	4
ANAT	100	Basic Human Anatomy	3
PPY	254	Human Physiology	4
ITM	200	Intro to Info Technology Mgmt	3
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3

HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3

Health Information Management (BS)/Pre-Professional

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)			
CMM		Communications	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
MATH	142	Calculus I	3
STAT	110	Statistics	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry & Molecular Biology I	3
BIOL	304*	Cellular Biochemistry & Molecular Biology II*	3
BIOL	3XX	Biology Elective (suggested)	3
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/Lab	4
CHEM	342	Organic Chemistry I/Lab	4
CHEM	343	Organic Chemistry II/Lab	4
PHYS	131	Physics I/Lab	4
PHYS	133	Physics II/Lab	4
PPHS	100	Foundations of Medicine (optional)	1
ANAT	100	Anatomy	3
PPY	254	Human Physiology	4
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3

*BIO 304 Cellular Biochemistry and Molecular Biology II is recommended, but not required.

Requirements for HIM/ Pre-Professional curriculum are determined by the Pre-Professional Health Studies Office. It is the student's responsibility to remain current on the requirements these curricular options.

Health Information Management (BS)/Medical Scholars

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)			
CMM		Communications	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
MATH	142	Calculus I*	3
STAT	110	Statistics	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry & Molecular Biology I	3
BIOL	304	Cellular Biochemistry & Molecular Biology II	3
BIOL	XXX	Upper Division Biology	3
BIOL	XXX	Upper Division Biology	3
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/Lab	4
CHEM	342	Organic Chemistry I/Lab	4
CHEM	343	Organic Chemistry II/Lab	4
PHYS	131	Physics I/Lab	4
PHYS	133	Physics II/Lab	4
PHYS	100	Foundations of Medicine (optional)	1
PPHS	105	Medical Scholars Seminar	0
ANAT	100	Anatomy	3
PPY	254	Human Physiology	4
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3

HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3

*Students must take one course at Saint Louis University with a MATH prefix. If the student tests out or transfers in MATH142, they must take MATH130 or another math class approved by the Director.

Health Information Management (BS)/Legal Studies Minor

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGA	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
CMM	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
PSY	101	General Psychology	3
MATH	120	College Algebra	3
STAT	110	Statistics	3
BIO		Biology or other Science Elective	3-4
ECON	190	Economics	3
HSCI	330	Anatomy & Physiology I	4
HSCI	340	Anatomy & Physiology II	4
ITM	200	Intro to Info Technology Mgmt	3
PLS	100	Intro to law	2
PLS	105	Intro to Legal Careers	1
PLS	200	Intro to Legal Research & Writing	3
PLS	220	Service Learning	3
PLS	300	Alternative Dispute Resolution	3
PLS	375	Issues in Health Law	3
PLS	400	Comparative Legal System	3
PSL	410	Legal Internships	3
XXX		Elective	3
HIM	270	Medical Terminology	3
HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	350	Health Care Management	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	450	Human Resource Mgmt in HC	3
HIM	451	Healthcare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3
HIM		Elective	3

Health Information Management (BS)/Accelerated Option

The Bachelor of Science in Health Information Management Accelerated option is designed for individuals already possessing a bachelor's degree. The curriculum is designed to prepare the graduate to take the national credentialing examination offered by the American Health Information Management Association. Prior to acceptance into the program, it is advisable for prospective students to complete the following Foundation Courses. Once accepted into the program, all courses must be taken at SLU.

Basic Human Anatomy with Lab Section	3-4
Human Physiology	3-4
Introduction Computer Applications	3
Philosophy	3
Theology	3
Statistics	3
Management of Human Resources	3
Management Theory & Practice	3
Medical Terminology	2-3

Required Health Information Management Courses:

HIM	300	Intro to Health Informatics	3
HIM	310	Medico Legal Aspects	3
HIM	320	Health Data Management	3
HIM	330	Classification Systems I	3
HIM	360	HIM Theory and Practice	3
HIM	375	Fund of Clinical Medicine	3
HIM	415	Quality Improvement	3
HIM	420	Research Design, Critique	3
HIM	430	Classification Systems II	3
HIM	440	Clinical Data Analytics	3
HIM	451	HealthCare Financial Mgmt	3
HIM	453	Professional Practice	3
HIM	461	Electronic Health Systems Mgmt	3
HIM	498	Senior Seminar	3

Minor in Health Information

A minor in Health Information Management can complement any student's major who is interested in healthcare. It provides students with an introduction and foundation in the management of the increasingly important asset of health information. As healthcare becomes more information

intensive the ability to manage and understand data will be an increasingly valuable skillset.

Required Courses:
Students are required to take the following courses:

HIM	300	Introduction to Health Informatics	3
HIM	270	Medical Terminology	3
ITM	200	Intro to Information Mgmt	3

Elective Courses:
Students must choose three of the following courses:

HIM	310	Medico-legal Aspects	3
HIM	320	Health Data Management	3
HIM	350	Health Care Management	3
HIM	415	Quality Improvement	3
HIM	450	Human Resources Mgmt in HC	3
HIM	461	Electronic Systems Management	3

Health Sciences

Julie Wolter, MA, RHIA, FAHIMA; Program Director, Health Sciences

Suzanne McGahan, MHI, RHIA- Program Coordinator

Faculty:
Elaina Osterbur, PhD- Assistant Professor

http://www.slu.edu/x38430.xml

The Program in Health Sciences offers an undergraduate program leading to a Bachelor of Science in Health Sciences degree. Our goal is to prepare students for professional and research careers in the rapidly changing world of health, with special emphasis on the holistic context in which health care is delivered.

The health care industry is growing and changing rapidly. A new generation of health professionals will be needed to examine old problems from a fresh perspective and arrive at innovative theories, policies and technologies that address emerging health concerns. We prepare our students for these challenges by offering curricular tracks in pre-medicine, medical scholar, pre-nursing, pre-physician assistant, pre-physical therapy, pre-occupational therapy, pre-athletic training and a general health science that prepare students for both the graduate studies and the workforce.

The Program in Health Sciences is a unit within the College of Health Sciences. Our outstanding faculty, students and staff study all aspects of health from cell to society. By integrating high quality research, instruction and outreach programs, faculty scholars and students are leading interdisciplinary initiatives that promote optimal health for people of all ages.

Health Sciences

General Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
CMMA	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
THEO	2XX	Theology Elective	3
HIST	XXX	History Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
MATH	120	College Algebra	3
MATH	132	Survey of Calculus	3
STAT	110	Elementary Statistics (or MATH 130)	3
BIOL	104	Principles of Biology I/Lab	4
BIOL	106	Principles of Biology II/ Lab	4
CHEM	153	Principles of Chemistry I/Lab	4
CHEM	154	Principles of Chemistry II/Lab	4
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3

HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Pre-Med Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
STAT	110	Elementary Statistics (or MATH 130)	3
MATH	141	Pre-Calculus	3
MATH	142	Calculus I	4
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4

BIOL	302	Molecular Cell Biology I/Lab	3
BIOL	304	Cellular Biochem & Molecular bio	3
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/ Lab	4
CHEM	342	Prin of Organic Chemistry I/Lab	4
CHEM	343	Prin of Organic Chemistry II/Lab	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
PPHS	100	Foundations of Medicine	1
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
HIST	XXX	History Elective	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
PHYS	131	Physics I/ Lab	4
PHYS	133	Physics II/Lab	4
XXX		Elective	3
XXX		Elective	3

HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Medical Scholars Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
STAT	110	Elementary Statistics (or MATH 130)	3
MATH	142	Calculus I	4
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Molecular Cell Biology I/Lab	3
BIOL	304	Cellular Biochem & Molecular Bio	4
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/ Lab	4
CHEM	342	Prin Organic Chemistry I/Lab	4
CHEM	343	Prin Organic Chemistry II/ Lab	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
PPHS	100	Foundations of Medicine	1
PPHS	105	Med Scholars Seminar	0
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			3
PPY	254	Human Physiology	4
ANAT	100	Human Anatomy	3
PHYS	131	Physics I/Lab	4
PHYS	133	Physics II/Lab	4
BIOL		Upper Division Biology	3
BIOL		Upper Division Biology	3
XXX		Elective	3

HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Post-Baccalaureate DPT Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
MATH	120	College Algebra	3
STAT	110	Elementary Statistics (or MATH 130)	3
MATH	142	Calculus I	4
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
CHEM	153	Principles of Chemistry I	4
CHEM	154	Principles of Chemistry II	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
HIST	XXX	History Elective	3
PHYS	122	General Physics I	4

PHYS	124	General Physics II	4
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Post-Baccalaureate MAT Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
MATH	120	College Algebra	3
STAT	110	Elementary Statistics (or MATH 130)	3
MATH	141	Pre-Calculus	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
CHEM	153	Principles of Chemistry I	4
CHEM	154	Principles of Chemistry II	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
HIST	XXX	History Elective	3
PHYS	122	General Physics I	4
PHYS	124	General Physics II	4
XXX		Exercise Physiology	3
XXX		Elective	3
XXX		Elective	3
HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Post-Baccalaureate MOT Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
MATH	120	College Algebra	3
STAT	110	Elementary Statistics (or MATH 130)	3
MATH	132	Survey of Calculus	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
CHEM	153	Principles of Chemistry I	4
CHEM	154	Principles of Chemistry II	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
HIST	XXX	History Elective	3
SOC	110	Intro to Sociology	3
PHSY	105	Physics of Human Body	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3

HSCI	490	Fundamentals Health Living	3

Post-Baccalaureate PA Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
CMMA	120	Public Speaking	3
MATH	120	College Algebra	3
STAT	110	Elementary Statistics (or MATH 130)	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Molecular Cell Biology I/Lab	3
CHEM	163	General Chemistry I/Lab	4
CHEM	164	General Chemistry II/Lab	4
CHEM	342	Organic Chemistry I/Lab	4
CHEM	343	Organic Chemistry II/Lab	4
PHIL	105	Intro to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theology Foundations	3
THEO	2XX	Theology Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
HIST	XXX	History Elective	3
BLS	451	Medical Microbiology	4
BIOL	303	Principles of Genetics	3
XXX		Elective	3
XXX		Elective	3

HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Pre-Nursing Curriculum

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
CMMA	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
THEO	2XX	Theology Elective	3
HIST	XXX	History Elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
MATH	120	College Algebra	3
MATH	132	Survey of Calculus	3
STAT	110	Elementary Statistics (or MATH 130)	3
BIOL	104	Principles of Biology I/Lab	4
BIOL	106	Principles of Biology II/ Lab	4
CHEM	153	Principles of Chemistry I/Lab	4
CHEM	154	Principles of Chemistry II/Lab	4
BLS	451	Medical Microbiology	4
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3
XXX		Elective	3

HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

General Curriculum with a minor in Legal Studies

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
XXX		Fine Art	3
(Foreign Language, Cultural Studies, Art, Music, Theater)			
XXX		Social Science	3
(Anthropology, Political Science, Sociology, Criminal Justice, Select Psychology)			
CMMA	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theological Foundations	3
THEO	2XX	Theology Elective	3
HIST	XXX	History Elective	3
PSY	101	General Psychology	3

PSY	439	Abnormal Psychology	3
SOC	110	Intro to Sociology	3
MATH	120	College Algebra	3
MATH	132	Survey of Calculus	3
STAT	110	Elementary Statistics (or MATH 130)	3
BIOL	104	Principles of Biology I/Lab	4
BIOL	106	Principles of Biology II/ Lab	4
CHEM	153	Principles of Chemistry I/Lab	4
CHEM	154	Principles of Chemistry II/Lab	4
XXX		Elective	3
XXX		Elective	3
PLS	100	Intro to Law	3
PLS	200	Legal Research and Writing	3
XXX		Pre-Law Elective	3
PHIL	406	Logic for Pre-Professionals	3
PLS	220		
or	410	Service/Internship	3
HSCI	100	Intro to Health Sciences	1
HSCI	200	The U.S. Health Care System	3
HSCI	250	Human Dev Across the Life Span	3
HSCI	301	Medical Terminology	3
HSCI	320	Healthcare Legal Aspects	3
HSCI	330	Anatomy & Physiology I & lab	4
HSCI	340	Anatomy & Physiology II & lab	4
HSCI	350	Electronic Health Systems	3
HSCI	370	Using Evidence in Health Care	3
HSCI	400	Neuroscience in Daily Life	3
HSCI	450	Hot Topics in Health Care	3
HSCI	460	Consumer Health	3
HSCI	470	Health Care & Human Resource Mgt	3
HSCI	490	Fundamentals Health Living	3

Medical Imaging and Radiation Therapeutics

http://www.slu.edu/x10579.xml

William Hubble, M.A., CNMT, R.T. (R)(N)(CT), FSNMMI-TS, Academic Chair/NMT Program Director

The Department of Medical Imaging and Radiation Therapeutics contains three separate degree programs: Magnetic Resonance Imaging, Nuclear Medicine Technology, and Radiation Therapy. Please consult the respective websites for more information.

Magnetic Resonance Imaging Program (MRI)

Faculty:
Austin Turner, B.S., CNMT, PET, RT(MR) Clinical Coordinator
Robert Turco, PhD

The Bachelor of Science in Magnetic Resonance Imaging (MRI) Program prepares a graduate for an entry level position as a magnetic resonance imaging technologist. The program includes all basic sciences, as well as a 12 month intensive MRI curriculum that includes 1300 hours of clinical practicum. The Magnetic Resonance Imaging Program offers several curriculum tracks, including pre-Physician Assistant and pre-Medicine. Upon successful completion of the program, the graduate is eligible for national certification to become a registered Magnetic Resonance Imaging Technologist RT(MR). MRI graduates can work as technologists in hospitals, imaging centers, and physicians' offices. They may also seek positions in information technology, healthcare administration, sales and training, teaching, research, and other related fields. In addition, many graduates continue their education by attending medical school, graduate school, and other professional programs.

Magnetic Resonance Imaging (BS)

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
XXX	XXX	Humanities Elective	6
(Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
SOC	110	Intro to Sociology	3
MATH	120	College Algebra	3
MATH	130	Elementary Statistics	3
MATH	132	Survey of Calculus	3
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
CHEM	153	General Chemistry I/Lab	4
CHEM	154	General Chemistry II/Lab	4
PHYS	122	General Physics I/Lab	4
PHYS	124	General Physics II/Lab	4
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology I	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
HSCI	470	HC & HR Management	3
ORES	231	Intro to Clinical Medicine	3

IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System/Hlth Promotion	3
IPE	420	Applied Decision Making in HC	3

Magnetic Resonance Professional Coursework:

MRI	431	MRI Physical Principles	3
MRI	432	MRI Cross Sectional Anat/Path	3
MRI	433	MRI Instrumentation/QA	3
MRI	434	Clinical MRI/Image Production	5
MRI	435	MRI Patient Care/Safety	3
MRI	441	Clinical MRI Practicum	9
MRI	442	Adv/Emerging Technologies	2
MRI	498	Capstone in MRI	2
MRI	499	Clinical Practicum	0

Magnetic Resonance Imaging (BS)/Pre-Physician Assistant (PA) Track

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
MATH	120	College Algebra	3
MATH	130	Elementary Statistics	3
MATH	132	Survey of Calculus	3
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry	3
CLS	352	Medical Microbiology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Organic Chemistry I	3
CHEM	343	Organic Chemistry II	3
CHEM	344	Organic Chemistry Lab I	1
CHEM	345	Organic Chemistry Lab II	1
PHYS	122	General Physics I/Lab	4
PHYS	124	General Physics II/Lab	4
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology I	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
ORES	231	Intro to Clinical Medicine	3
IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System/Hlth Promotion	3
IPE	420	Applied Decision Making in HC	3

Magnetic Resonance Professional Coursework:

MRI	431	MRI Physical Principles	3
MRI	432	MRI Cross Sectional Anat/Path	3
MRI	433	MRI Instrumentation/QA	3
MRI	434	Clinical MRI/Image Production	5
MRI	435	MRI Patient Care/Safety	3
MRI	441	Clinical MRI Practicum	9
MRI	442	Adv/Emerging Technologies	2
MRI	498	Capstone in MRI	2
MRI	499	Clinical Practicum	0

Magnetic Resonance Imaging (BS)/Pre-Professional (Medicine) Track

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
XXX	XXX	Humanities Elective	3
(Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
MATH	130	Elementary Statistics	3
MATH	141	PreCalculus	3
MATH	142	Calculus I	4
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry	3
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Organic Chemistry I	3
CHEM	343	Organic Chemistry II	3
CHEM	344	Organic Chemistry Lab I	1
CHEM	345	Organic Chemistry Lab II	1
PHYS	131	General Physics I	3
PHYS	132	General Physics I Lab	1
PHYS	133	General Physics II	3
PHYS	134	General Physics II Lab	1
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology I	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
ORES	231	Intro to Clinical Medicine	3
IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System/Hlth Promotion	3
IPE	420	Applied Decision Making in HC	3

Magnetic Resonance Professional Coursework:

MRI	431	MRI Physical Principles	3
MRI	432	MRI Cross Sectional Anat/Path	3
MRI	433	MRI Instrumentation/QA	3
MRI	434	Clinical MRI/Image Production	5
MRI	435	MRI Patient Care/Safety	3
MRI	441	Clinical MRI Practicum	9
MRI	442	Adv/Emerging Technologies	2
MRI	498	Capstone in MRI	2
MRI	499	Clinical Practicum	0

Nuclear Medicine Technology Program (NMT)

Faculty:
Crystal Botkin, MPH, CNMT, PET - Clinical Coordinator
Ross Frye, BS, CNMT
Debra Hewing, MBA, CNMT, CCRP
James Littlefield, MD, M.Ed - Medical Director
Medhat Osman, MD, ScM, PhD

The Bachelor of Science in Nuclear Medicine Technology (NMT) prepares a graduate for an entry level position as a nuclear medicine technologist. The program includes all basic sciences, as well as a 12 month intensive NMT curriculum that includes 1300 hours of clinical practicum. The Nuclear Medicine Technology Program offers several curriculum tracks including pre-Physician Assistant and pre-Medicine. Upon successful completion of the program, the graduate is eligible for national certification to become a Certified Nuclear Medicine Technologist (CNMT). NMT graduates can work as technologists in hospitals and clinics. They may also seek positions in information technology, healthcare administration, sales and training, radiopharmacy labs, teaching, and other related fields. In addition, many graduates continue their education by attending medical school, graduate school, and other professional programs.

Nuclear Medicine Technology (BS)

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
XXX	XXX	Humanities Elective	6
(Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
SOC	110	Intro to Sociology	3
MATH	120	College Algebra	3
MATH	130	Elementary Statistics	3
MATH	132	Survey of Calculus	3
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
CHEM	153	General Chemistry I/Lab	4
CHEM	154	General Chemistry II/Lab	4
PHYS	122	General Physics I/Lab	4
PHYS	124	General Physics II/Lab	4
HSCI	200	US Healthcare System	3
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology I	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
HSCI	470	HC & HR Management	3
PHIL	336	Medical Ethics	3
ORES	231	Intro to Clinical Medicine	3

Nuclear Medicine Professional Coursework:

NMT	431	Radiation Physics and Protection	4
NMT	432	Radiochemistry	3
NMT	433	Nuclear Medicine Instrumentation	3
NMT	434	Clinical Nuclear Medicine	5
NMT	435	NM Information Systems	3
NMT	441	Imaging Practicum	7
NMT	442	Radiochemistry Practicum	3
NMT	443	Emerging Technologies	2
NMT	498	Capstone in Nuclear Medicine	1
NMT	499	Clinical Practicum	0

Nuclear Medicine Technology (BS)/Pre-Physician Assistant (PA) Track

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
MATH	120	College Algebra	3
MATH	130	Elementary Statistics	3
MATH	132	Survey of Calculus	3
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry	3
CLS	352	Medical Microbiology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1

CHEM	342	Organic Chemistry I	3
CHEM	343	Organic Chemistry II	3
CHEM	344	Organic Chemistry Lab I	1
CHEM	345	Organic Chemistry Lab II	1
PHYS	122	General Physics I/Lab	4
PHYS	124	General Physics II/Lab	4
HSCI	200	US Healthcare System	3
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology I	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
PHIL	336	Medical Ethics	3
ORES	231	Intro to Clinical Medicine	3

Nuclear Medicine Professional Coursework:

NMT	431	Radiation Physics and Protection	4
NMT	432	Radiochemistry	3
NMT	433	Nuclear Medicine Instrumentation	3
NMT	434	Clinical Nuclear Medicine	5
NMT	435	NM Information Systems	3
NMT	441	Imaging Practicum	7
NMT	442	Radiochemistry Practicum	3
NMT	443	Emerging Technologies	2
NMT	498	Capstone in Nuclear Medicine	1
NMT	499	Clinical Practicum	0

Nuclear Medicine Technology (BS)/Pre-Professional (Medicine) Track

ENGL	190	Adv Strategies of Rhetoric & Rsch	3
ENGL	2XX	Literature	3
ART	XXX	Fine Arts Elective	3
(Art Appreciation, Art History, Intro to Theatre, etc.)			
XXX	XXX	Humanities Elective	3
(Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)			
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
HIST	111	Origins of Modern World	3
PSY	101	General Psychology	3
MATH	130	Elementary Statistics	3
MATH	141	Pre-Calculus	3
MATH	142	Calculus I	4
ITM	200	Intro to Info Technology Mgmt	3
BIOL	104	Principles of Biology I	4
BIOL	106	Principles of Biology II	4
BIOL	302	Cellular Biochemistry	3
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Organic Chemistry I	3
CHEM	343	Organic Chemistry II	3
CHEM	344	Organic Chemistry Lab I	1
CHEM	345	Organic Chemistry Lab II	1
PHYS	131	General Physics I	3
PHYS	132	General Physics I Lab	1
PHYS	133	General Physics II	3
PHYS	134	General Physics II Lab	1
HSCI	200	US Healthcare System	3
HSCI	301	Medical Terminology	3
HSCI	320	HC Legal Aspects	3
HSCI	330	Anatomy and Physiology II	4
HSCI	340	Anatomy and Physiology II	4
HSCI	370	Evidence in HC	3
PHIL	336	Medical Ethics	3
ORES	231	Intro to Clinical Medicine	3

Nuclear Medicine Professional Coursework:

NMT	431	Radiation Physics and Protection	4
NMT	432	Radiochemistry	3
NMT	433	Nuclear Medicine Instrumentation	3
NMT	434	Clinical Nuclear Medicine	5
NMT	435	NM Information Systems	3
NMT	441	Imaging Practicum	7
NMT	442	Radiochemistry Practicum	3
NMT	443	Emerging Technologies	2
NMT	498	Capstone in Nuclear Medicine	1
NMT	499	Clinical Practicum	0

Radiation Therapy Program (XRT)

Kathleen O. Kienstra, MAT, R.T.(R)(T)
Program Director

Faculty:
Sherry Bicklein, MHI, R.T.(R)(T)
Elizabeth Lansing, CMD, R.T.(R)(T)
Patty Karfs, CMD, R.T.(R)(T)
Robert F. Turco, Ph.D
John M. Bedwinek, M.D., FACR, FACRO, FASTRO

The Bachelor of Science in Radiation Therapy (XRT) prepares a graduate for an entry-level position as a radiation therapist. The program includes all basics sciences as well as a 12 month intensive XRT curriculum that includes 1200 hours of clinical practicum. The Radiation Therapy Program offers several curriculum tracks including pre-Physician Assistant and pre-Medicine. Upon successful completion of the program, the graduate is eligible for national certification to become a Registered Radiation Therapist (ARRT). XRT graduates can work as therapists in hospitals and clinics. They may also seek positions in information technology, healthcare administration, sales and training, teaching, and other related fields. In addition, many graduates continue their education

by attending medical school, graduate school, and other professional programs.

Radiation Therapy (BS)

ENGL	**190**	**Adv Strategies of Rhetoric & Rsch**	**3**
ENGL	**2XX**	**Literature**	**3**
ART	**XXX**	**Fine Arts Elective**	**3**
(Art Appreciation, Art History, Intro to Theatre, etc.)			
XXX	**XXX**	**Humanities Elective**	**3**
(Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)			
PHIL	**105**	**Introduction to Philosophy**	**3**
PHIL	**205**	**Ethics**	**3**
THEO	**100**	**Theological Foundations**	**3**
HIST	**111**	**Origins of Modern World**	**3**
PSY	**101**	**General Psychology**	**3**
SOC	**110**	**Intro to Sociology**	**3**
MATH	**120**	**College Algebra**	**3**
MATH	**130**	**Elementary Statistics**	**3**
MATH	**141**	**Pre-Calculus**	**3**
DIET	**208**	**Foundations in Nutrition**	**2**
ITM	**200**	**Intro to Info Technology Mgmt**	**3**
BIOL	**104**	**Principles of Biology I**	**4**
BIOL	**106**	**Principles of Biology II**	**4**
CHEM	**153**	**General Chemistry I/Lab**	**4**
CHEM	**154**	**General Chemistry II/Lab**	**4**
PHYS	**122**	**General Physics I/Lab**	**4**
PHYS	**124**	**General Physics II/Lab**	**4**
HSCI	**301**	**Medical Terminology**	**3**
HSCI	**320**	**HC Legal Aspects**	**3**
HSCI	**330**	**Anatomy and Physiology I**	**4**
HSCI	**340**	**Anatomy and Physiology II**	**4**
HSCI	**470**	**HC & HR Management**	**3**
IPE	**110 1**	**Intro to Interprofessional Health Care**	
IPE	**350**	**Health Care Systems**	**3**
IPE	**420**	**Applied Decision Making**	**3**
ORES	**231**	**Intro to Clinical Med**	**3**
ORES	**232**	**Interprof Health Outcomes**	**2**

Radiation Therapy Professional Coursework:

XRT	431	Radiation Physics	2
XRT	432	Radiation Therapy Practice I	3
XRT	433	Treatment Techniques	3
XRT	434	Treatment Planning	3
XRT	435	Clinical Practicum I	6
XRT	436	Emerging Technologies	2
XRT	442	Radiation Therapy Practice II	3
XRT	444	Clinical Dosimetry	4
XRT	445	Clinical Practicum II	0
XRT	450	Radiation Onc Patient Care and Q.M.	3
XRT	451	Radiobiology & Radiation Protection	2
XRT	498	Capstone in Radiation Therapy	1

Radiation Therapy (BS)/Pre-Physician Assistant (PA) Track

ENGL	**190**	**Adv Strategies of Rhetoric & Rsch**	**3**
ENGL	**2XX**	**Literature**	**3**
ART	**XXX**	**Fine Arts Elective**	**3**
(Art Appreciation, Art History, Intro to Theatre, etc.)			
PHIL	**105**	**Introduction to Philosophy**	**3**
PHIL	**205**	**Ethics**	**3**
THEO	**100**	**Theological Foundations**	**3**
HIST	**111**	**Origins of Modern World**	**3**
PSY	**101**	**General Psychology**	**3**
MATH	**120**	**College Algebra**	**3**
MATH	**130**	**Elementary Statistics**	**3**
MATH	**141**	**Pre-Calculus**	**3**
DIET	**208**	**Foundations in Nutrition**	**2**
ITM	**200**	**Intro to Info Technology Mgmt**	**3**
BIOL	**104**	**Principles of Biology I**	**4**
BIOL	**106**	**Principles of Biology II**	**4**
BIOL	**302**	**Cellular Biochemistry**	**3**
CLS	**352**	**Medical Microbiology**	**4**
CHEM	**163**	**General Chemistry I**	**3**
CHEM	**164**	**General Chemistry II**	**3**
CHEM	**165**	**General Chemistry I Lab**	**1**
CHEM	**166**	**General Chemistry II Lab**	**1**
CHEM	**342**	**Organic Chemistry I**	**3**
CHEM	**343**	**Organic Chemistry II**	**3**
CHEM	**344**	**Organic Chemistry Lab I**	**1**
CHEM	**345**	**Organic Chemistry Lab II**	**1**
PHYS	**122**	**General Physics I/Lab**	**4**
PHYS	**124**	**General Physics II/Lab**	**4**
HSCI	**301**	**Medical Terminology**	**3**
HSCI	**320**	**HC Legal Aspects**	**3**
HSCI	**330**	**Anatomy and Physiology I**	**4**
HSCI	**340**	**Anatomy and Physiology II**	**4**
ORES	**231**	**Intro to Clinical Medicine**	**3**
ORES	**232**	**Interprof Hlth Outcomes**	**2**
IPE	**110 1**	**Intro to Interprofessional Health Care**	
IPE	**350**	**Health Care Systems**	**3**
IPE	**420**	**Applied Decision Making**	**3**

Radiation Therapy Professional Coursework:

XRT	431	Radiation Physics	2
XRT	432	Radiation Therapy Practice I	3
XRT	433	Treatment Techniques	3
XRT	434	Treatment Planning	3
XRT	435	Clinical Practicum I	6
XRT	436	Emerging Technologies	2
XRT	442	Radiation Therapy Practice II	3

XRT	444	Clinical Dosimetry	4
XRT	445	Clinical Practicum II	0
XRT	450	Radiation Onc Patient Care and Q.M.	3
XRT	451	Radiobiology & Radiation Protection	2
XRT	498	Capstone in Radiation Therapy	1

Radiation Therapy (BS)/Pre-Professional (Medicine) Track

ENGL	**190**	**Adv Strategies of Rhetoric & Rsch**	**3**
ENGL	**2XX**	**Literature**	**3**
ART	**XXX**	**Fine Arts Elective**	**3**
(Art Appreciation, Art History, Intro to Theatre, etc.)			
PHIL	**105**	**Introduction to Philosophy**	**3**
PHIL	**205**	**Ethics**	**3**
THEO	**100**	**Theological Foundations**	**3**
HIST	**111**	**Origins of Modern World**	**3**
PSY	**101**	**General Psychology**	**3**
MATH	**130**	**Elementary Statistics**	**3**
MATH	**141**	**Pre-Calculus**	**3**
MATH	**142**	**Calculus I**	**4**
SOC	**110**	**Intro to Sociology**	**3**
DIET	**208**	**Foundations in Nutrition**	**2**
ITM	**200**	**Intro to Info Technology Mgmt**	**3**
BIOL	**104**	**Principles of Biology I**	**4**
BIOL	**106**	**Principles of Biology II**	**4**
BIOL	**302**	**Cellular Biochemistry**	**3**
CHEM	**163**	**General Chemistry I**	**3**
CHEM	**164**	**General Chemistry II**	**3**
CHEM	**165**	**General Chemistry I Lab**	**1**
CHEM	**166**	**General Chemistry II Lab**	**1**
CHEM	**342**	**Organic Chemistry I**	**3**
CHEM	**343**	**Organic Chemistry II**	**3**
CHEM	**344**	**Organic Chemistry Lab I**	**1**
CHEM	**345**	**Organic Chemistry Lab II**	**1**
PHYS	**131**	**General Physics I**	**3**
PHYS	**132**	**General Physics I Lab**	**1**
PHYS	**133**	**General Physics II**	**3**
PHYS	**134**	**General Physics II Lab**	**1**
HSCI	**301**	**Medical Terminology**	**3**
HSCI	**320**	**HC Legal Aspects**	**3**
HSCI	**330**	**Anatomy and Physiology I**	**4**
HSCI	**340**	**Anatomy and Physiology II**	**4**
ORES	**231**	**Intro to Clinical Med**	**3**
ORES	**232**	**Interprof Hlth Outcomes**	**2**
IPE	**110**	**Intro to Interprofessional Health Care**	**1**
IPE	**350**	**Health Care Systems**	**3**
IPE	**420**	**Applied Decision Making**	**3**

Radiation Therapy Professional Coursework:

XRT	431	Radiation Physics	2
XRT	432	Radiation Therapy Practice I	3
XRT	433	Treatment Techniques	3
XRT	434	Treatment Planning	3
XRT	435	Clinical Practicum I	6
XRT	436	Emerging Technologies	2
XRT	442	Radiation Therapy Practice II	3
XRT	444	Clinical Dosimetry	4
XRT	445	Clinical Practicum II	0
XRT	450	Radiation Onc Patient Care and Q.M.	3
XRT	451	Radiobiology & Radiation Protection	2
XRT	498	Capstone in Radiation Therapy	1

Nutrition and Dietetics

Mildred Mattfeldt-Beman PhD, RD, Chair
www.slu.edu/x2270.xml

Faculty:
Daniel Brewer, MS, RD, Chef
Katie Eliot, PhD, RD
Susan Hansen, RD, PhD
Steve Jenkins, MA, Chef
Lori Jones, MPH, RD, MS
Kathy Kress, MS, RD
Lauren Landfried, MS, RD
Whitney Linsenmyer, MS, RD
Michael Milster, MS, CEC, CCE, CFBE, CHE
Amy Moore, PhD, MPH, RD
Todd Parkhurst, BS, Chef
Rabia Rahman, MS, RD
Melissa Ramel, MS, MPH, RD
Marjorie Sawicki, MS, RD
Edward Weiss, PhD
Melissa White, MS, MPH, RD

Dietetics, the application of food and nutrition knowledge to promote health, prevent disease and minimize disability, is a rapidly growing profession in allied health. Dietitians are dedicated to helping the public attain better health and longevity through the use of sound nutrition practices. Our graduates are prepared with foundation knowledge and skills to enter the field of nutrition. The Didactic Program in Dietetics and the Supervised Practice Program (Dietetic Internship) at Saint Louis University are currently granted Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) the accrediting agency for the Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312.899.0400 ext 5400. The Didactic Program in Dietetics (DPD) prepares the student for entry into a supervised practice program, a prerequisite to becoming a registered dietitian.

The Food Innovation and Entrepreneurship (FIE) program at Saint Louis University provides students with a strong

knowledge base in nutrition, culinary arts, and entrepreneurship. This option is for those interested in nutrition sciences, sustainability, food preparation, food service management, and leadership opportunities. Saint Louis University prepares FIE students for innovative opportunities in the food industry.

Undergraduate students may opt for a general course of study in dietetics, one with an emphasis in culinary arts or food innovation and entrepreneurship, one that fulfills requirements for medical school (pre-professional health studies), or a pre-physician assistant scholar's track. Students receive a broad and varied experience in classroom, laboratory and clinical settings. The program provides individual attention and close ties with faculty. Students may pursue either full-time or part-time study.

Undergraduate students have the option to complete a special emphasis in Culinary Arts. Saint Louis University is one of the first in the nation to combine a dietetics and culinary program. The culinary emphasis is designed to meet the standards of the Academy of Nutrition and Dietetics and the American Culinary Federation.

Upon successful completion of the Didactic Program in Dietetics (DPD), graduates are ready to compete for dietetic internships and have the flexibility to enter positions in:

- Hospitals, clinics, health centers, and private practice
- Public and private wellness programs
- Government nutrition programs
- Schools, restaurants, private clubs
- Research settings, food and pharmaceutical industries

Admission Requirements and Procedures for Transfer Students

External Transfer students should have at least a 2.75 GPA (4.0 scale). Internal Transfer students should have at least a 2.75 GPA (4.0 scale). Chemistry, biology, college algebra and English composition are recommended. Contact the Department of Nutrition and Dietetics for further information and assistance.

Nutrition and Dietetics (B.S.)/ DPD Verification

Required Related Courses

BIOL	110	Principles of Biology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Principles of Organic Chemistry	3
CHEM	344	Organic Chemistry Lab	1
CHEM	360	Biochemistry	3
DIET	308	Nutritional Aspects of Biochemistry	1
BLS	451	Medical Microbiology	4
MGT	300	Management Theory & Practice	3
HIM	270	Medical Terminology	3
PPY	254	Human Physiology	4
ECON	190	Principles of Economics	3
HCE	201	Found in Clinical Health Care Ethics	3
IPE	110	Intro to IP Health Care	1
PSY	101	Introduction to Psychology	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theology	3
ENGL	190	Rhetoric and Critical Thinking	3
HIST	XXX	History Elective	3
ART	XXX	Fine Arts Elective *(Art, Music, etc.)*	3
ENGL	XXX	English Literature Elective	3
ELEC	XXX	General Electives *(Courses of the student's choice)*	12

Required Courses for the Major

DIET	100	Hot Topics in Nutrition	2
DIET	208	Foundations in Nutrition	3
DIET	210	Nutrition in the Lifecycle	3
DIET	308	Nutritional Aspects of Biochemistry	1
DIET	251	Ethnic Meal Management	4
DIET	360	Food Science	3
DIET	370	Quantity Food Procurement/Prep	4
DIET	385	Advanced Nutrition	4
DIET	389	Internship Seminar	1
DIET	410	Medical Nutrition Therapy I	3
DIET	411	Clinical Practicum Lab	2
DIET	415	Medical Nutrition Therapy II	3
DIET	416	Clinical Practicum Lab II	2
DIET	430	Community Nutrition	3
DIET	435	Food Systems Management I	3
DIET	436	Food Systems Management II	3
DIET	440	Nutrition Education	3
DIET	450	Nutrition Counseling	3
DIET	487	Critical Reading Research Material I	1
DIET	488	Critical Reading Research Material II	1

Nutrition and Dietetics (B.S.)/ DPD Verification + Special Emphasis in Culinary Arts

Required Related Courses

BIOL	110	Principles of Biology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Principles of Organic Chemistry	3
CHEM	344	Organic Chemistry Lab	1
CHEM	360	Biochemistry	3
BLS	451	Med Microbiology	4
MGT	300	Management Theory & Practice	3
ACCT	220	Financial Accounting	3

PPY	254	Human Physiology	4
HCE	201	Found in Clinical Health Care Ethics	3
IPE	110	Intro to IP Health Care	1
PSY	101	Introduction to Psychology	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theology	3
ENGL	190	Rhetoric and Critical Thinking	3
ENGL	XXX	English Literature Elective	3
ELEC	XXX	General Elective	3
		(Courses of the student's choice)	

Required Courses for the Major

DIET	100	Hot Topics in Nutrition	2
DIET	208	Foundations in Nutrition	3
DIET	202	Foundations in Classical Cuisine	3
DIET	210	Nutrition in the Lifecycle	3
DIET	212	Bar and Beverage Management	3
DIET	290	Culinary Intersession I	1
DIET	301	Catering I	1
DIET	303	Sustainable Food Systems	
DIET	308	Nutritional Aspects of Biochemistry	1
DIET	251	Ethnic Meal Management	4
DIET	360	Food Science	3
DIET	370	Quantity Food Procurement/Prep	4
DIET	375	Advanced Cooking & World Cuisine	2
DIET	385	Advanced Nutrition	4
DIET	389	Internship Seminar	1
DIET	390	Culinary Intersession II	1
DIET	401	Catering I	1
DIET	410	Medical Nutrition Therapy I	3
DIET	414	Adv Meat Analysis & Knife Skills	2
DIET	419	Garde Manger	3
DIET	415	Medical Nutrition Therapy II	3
DIET	425	Baking	3
DIET	426	Pastry	3
DIET	430	Community Nutrition	3
DIET	435	Food Systems Management I	3
DIET	436	Food Systems Management II	3
DIET	450	Nutrition Counseling	3
DIET	490	Culinary Philosophy and Practice	4
DIET	497	Culinary and Medicinal Herbs	3

Students may also earn a Certificate in Food Safety/Sanitation.

Nutrition and Dietetics (B.S.)/ DPD Verification + Special Emphasis in Food Innovation & Entrepreneurship

Required Related Courses

BIOL	110	Principles of Biology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
CHEM	342	Principles of Organic Chemistry	3
CHEM	344	Organic Chemistry Lab	1
CHEM	360	Biochemistry	3
BLS	451	Med Microbiology	4
MGT	300	Management Theory & Practice	3
MGT	320	Managing Ideas in Entrep Firms	3
MGT	321	Mgng Resources in Entrep Firms	3
MGT	421	Business Plan Devlopment	3
ACCT	220	Financial Accounting	3
PPY	254	Human Physiology	4
PHIL	205	Ethics	3
IPE	110	Intro to IP Health Care	1
PSY	101	Introduction to Psychology	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theology	3
ENGL	190	Rhetoric and Critical Thinking	3

Required Courses for the Major

DIET	100	Hot Topics in Nutrition	2
DIET	208	Foundations in Nutrition	3
DIET	202	Foundations in Classical Cuisine	3
DIET	210	Nutrition in the Lifecycle	3
DIET	212	Bar and Beverage Management	3
DIET	290	Culinary Intersession I	1
DIET	308	Nutritional Aspects of Biochemistry	1
DIET	251	Ethnic Meal Management	4
DIET	360	Food Science	3
DIET	370	Quantity Food Procurement/Prep	4
DIET	375	Advanced Cooking & World Cuisine	2
DIET	385	Advanced Nutrition	4
DIET	389	Internship Seminar	1
DIET	390	Culinary Intersession II	1
DIET	410	Medical Nutrition Therapy I	3
DIET	414	Adv Meat Analysis & Knife Skills	2
DIET	419	Garde Manger	3
DIET	415	Medical Nutrition Therapy II	3
DIET	425	Baking	3
DIET	426	Pastry	3
DIET	430	Community Nutrition	3
DIET	435	Food Systems Management I	3
DIET	436	Food Systems Management II	3
DIET	450	Nutrition Counseling	3
DIET	490	Culinary Philosophy and Practice	4
DIET	497	Culinary and Medicinal Herbs	3

Nutrition and Dietetics (B.S.)/ Special Emphasis in Food Innovation & Entrepreneurship

Required Related Courses

BIOL	110	Principles of Biology	4
CHEM	163	General Chemistry I	3
CHEM	164	General Chemistry II	3
CHEM	165	General Chemistry I Lab	1
CHEM	166	General Chemistry II Lab	1
BLS	451	Med Microbiology	4

MGT	300	Management Theory & Practice	3
MGT	320	Managing Ideas in Entrep Firms	3
MGT	321	Mgng Resources in Entrep Firms	3
MGT	421	Business Plan Devlopment	3
ACCT	220	Financial Accounting	3
PPY	254	Human Physiology	4
PHIL	205	Ethics	3
PSY	101	Introduction to Psychology	3
PHIL	105	Introduction to Philosophy	3
THEO	100	Theology	3
ENGL	190	Rhetoric and Critical Thinking	3

Required Courses for the Major

DIET	100	Hot Topics in Nutrition	2
DIET	208	Foundations in Nutrition	3
DIET	202	Foundations in Classical Cuisine	3
DIET	210	Nutrition in the Lifecycle	3
DIET	212	Bar and Beverage Management	3
DIET	250	Food Processing	4
DIET	290	Culinary Intersession I	1
DIET	303	Sustainable Food Systems	3
DIET	251	Ethnic Meal Management	4
DIET	360	Food Science	3
DIET	370	Quantity Food Procurement/Prep	4
DIET	375	Advanced Cooking & World Cuisine	2
DIET	390	Culinary Intersession II	1
DIET	401	Catering I	1
DIET	414	Adv Meat Analysis & Knife Skills	2
DIET	419	Garde Manger	3
DIET	425	Baking	3
DIET	426	Pastry	3
DIET	430	Community Nutrition	3
DIET	435	Food Systems Management I	3
DIET	436	Food Systems Management II	3
DIET	480	Sustainable Fd Innovatn Externship	3
DIET	490	Culinary Philosophy and Practice	4
DIET	497	Culinary and Medicinal Herbs	3

Pre-Professional Health (Pre-Med) and Medical Scholars:
Pre-professional health students and students accepted as medical scholars may declare Nutrition and Dietetics as a major. The curriculum for completion of B.S. in Nutrition and Dietetics with fulfillment of pre-professional health studies requirements is 144 credit hours. For more information, contact the Department of Nutrition and Dietetics.

Pre-Physicians Assistant (PA) Scholars Track:
Students accepted into B.S. program in Nutrition and Dietetics may apply for acceptance into the Pre-PA Scholars Track. This track, for entering freshman, presents an opportunity for a select number of highly qualified applicants who successfully complete the Track to be guaranteed a position in the Physician Assistant Program at Saint Louis University upon graduation. The track is 136 credit hours. For more information, contact the Department of Nutrition and Dietetics or the Department of Physician Assistant Education.

Verification of Didactic Program in Dietetics (DPD):
The Department has a program whereby students who possess a previously earned baccalaureate degree may complete requirements for DPD verification. This verification allows students to meet requirements for entry into a dietetic internship without completion of a second baccalaureate degree. For more information, contact the DPD Director in the Department of Nutrition and Dietetics

Occupational Science & Occupational Therapy

Debra A. Rybski, MS, MSHCA, OTR/L, Chair

http://www.slu.edu/x2400.xml

Full-time Faculty:
S. Omar Ahmad, Ph.D., OTD/L
Rebecca M. Aldrich, Ph.D., OTR/L
Karen F. Barney, Ph.D., OTR/L, FAOTA, Emerita
Jeanne R. Eichler, MOT, OTR/L, MT
Julia Henderson-Kalb, MS, OTR/L
Lisa A. Jaegers, MS, PhD (candidate), OTR/L
S. Margaret Maloney, Ph.D., OTR/L
Cynthia S. Matlock, MBA, OTR/L
Sherry L. Muir, MOT, OTR/L, ABD
Charlotte Royeen, Ph.D., OTR/L, FAOTA
Kathleen L. Serfas, OTD, OTR/L
Sarah Walsh, MOT, OTR/L

This program offers two degrees: a Bachelor of Science in Occupational Science (BSOS) and a Master of Occupational Therapy (MOT) degree.

Occupational Science is the study of the forms and meaning of human activity, and how everyday activities influence individuals' sense of identity and roles within families and communities. Occupational therapy is a health profession that employs everyday activities in the service of helping people to live healthy and satisfying lives. Services are provided to individuals who are at risk, or who have disabling conditions or life circumstances that prevent full participation in the roles and activities that they value.

Students have guaranteed entry into the graduate level master's program if they have successfully completed all the requirements of the undergraduate program. The combined BSOS and MOT program is five years of study.

Qualified Post Baccalaureate students with degrees in other fields may apply to the MOT program for an additional two years of study (including one summer semester).

Educational Requirements

Freshman Entry: A high school GPA of at least 3.2; four years of sciences, including one year of chemistry, one year of biology and preferably Physics; four years of math; four years of English; an ACT composite score of at least 24 or an equivalent SAT score.

Transfer Entry: Transfer students may enter the program during the sophomore or junior year with a cumulative GPA of 3.2.

Post-Baccalaureate Entry: Students who have a bachelor's degree may apply to MOT Program via Occupational Therapy Centralized Application Service, online at https://portal.otcas.org/ . Applicants provide an official transcript sent from the university where the degree was earned; the documents must indicate degree conferral, including the required prerequisite courses, listed as follows:

Chemistry with a lab	4
Biology with a lab	4
Basic Anatomy	3-4
Physiology	3-4
Physics	3-4
Lifespan Human Development	3
Abnormal Psychology	3
Research Methods	3-4
Medical Terminology	3

Applicants must achieve a grade of "C" or higher in all of the above subjects with a GPA of 3.2 or higher based on these courses only to qualify for admission. The GRE is required.

Non-academic Requirements
Fieldwork experiences in community and clinical practice settings are required in occupational therapy education. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and licensure.

Occupational Science (BSOS leading to MOT)

OS Core Requirements

ENGL	190	Adv Strat. of Rhetoric and Research	3
ENGL	202-260, 300-395	Literature	3
ENGL	400	Business and Professional Writing	3
CMM	120	Public Speaking	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
SOC	110 or SOC 120	Anthropology or Sociology	3
HSCI	301	Medical Terminology	3
PSY	101	General Psychology	3
PSY	205	Research Methods	3
PSY	439	Abnormal Psychology	3
MATH	120, 141, or 142	College Algebra, Pre-Calculus, or Calculus	3
BIOL	110	Introduction to Biology	4
CHEM	153	General Chemistry I	4
ANAT	100	Basic Human Anatomy	3
PHYS	105	Intro to Physics of the Human Body	3
PPY	254	Human Physiology	4
IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System & Hlth Promotion	3
IPE	420	Appl. Decision Making in IP Practice	3
IPE	490	Integrative IP Practicum	2
ORES	232	IPE Health Outcomes Research	2
TOTAL			68

Required Occupational Science Courses:

OCS	100	Seminar in OT Practice	2
OCS	101	Intro to OS & OT	2
OCS	312	Study of Occupation	3
OCS	322	Contexts of Occupation	3
OCS	332	Development of Humans as Occupational Beings	3
OCS	352	Occupational Health & Wellness	3
OCS	362	Lived Experience of Disabilities	3
OCS	372	Critical Perspectives of Culture, Occupation & Justice	3
ENGL	400	Business and Professional Writing	3

Occupational Therapy (MOT)

For the first two semesters, MOT courses are cross-listed with the OCS 4XX level BSOS courses. These courses are required for both the occupational science seniors and the first year post baccalaureate occupational therapy students.

ANAT	400	Gross Anatomy	6
OCS	462	Clin Conditions & Phenomenology	3
MOT	500	Fundamentals of OS for Post Bac	1
MOT	502	Professional Development I	1
MOT	503	Professional Development II	1
MOT	504	Professional Development III	1
MOT	515	Kinesiology	3
MOT	517	Neuroscience for OT	4
MOT	520	Clin Conditions & Phenomenology	3
MOT	525	OT Policy & Administration	2
MOT	526	Problem Based Learning	2
MOT	530	Fundamentals of OT Practice	3
MOT	535	Theoretical Foundations of OT	3
MOT	540	OT in Rehabilitation I	4
MOT	541	OT in Behavioral Health II	3
MOT	545	OP & Assmnt of Infant & Child	3
MOT	546	OT with Aging Adults	2

MOT	548	OT & Upper Extremity	2
MOT	549	Applied Research I	1
MOT	550	Applied Research II	1-3
MOT	555	OT in Rehab II	3
MOT	556	OT in Behavioral Health II	3
MOT	560	OT with Infants & Children	4
MOT	565	Applied Research III	2
MOT	566	Applied Research IV	0-5
MOT	570	Level II Fieldwork (12 weeks)	6
MOT	575	Level II Fieldwork (12 weeks)	6

Graduation:
Upon completion of all requirements, students receive the Master's in Occupational Therapy (MOT) Degree and are eligible to sit for the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). In addition to passing the national exam, most states require licensure in order to practice.

NOTE: All Level II Fieldwork must be complete within 18 months following completion of academic preparation.

Accreditation: The occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220; ACOTE's telephone number is (301) 652-AOTA

Pre P.A. Scholars Track for Occupational Science Students

Occupational Science Students have the option to choose the Bachelor of Science in Occupational Science (BSOS) degree with a pre-PA track. These students follow a modified BSOS four-year curriculum. After successful completion of the Pre-PA track and the BSOS degree, the student is guaranteed a position in the PA Graduate Program. For more information go to the PA website at http://www.slu.edu/x6928.xml.

Physical Therapy & Athletic Training

Mark F. Reinking, PT, PhD, SCS, ATC, Chair

The Department of Physical Therapy & Athletic Training includes two separate professional programs, the Program in Physical Therapy and the Athletic Training Program.

PT Program Website: http://pt.slu.edu
AT Program Website: http://at.slu.edu

Faculty:
Program in Physical Therapy
Tricia Austin, PT, PhD, ATC, Assistant Director
Carol Beckel, PT, PhD, Director of Clinical Education
Jason Bennett, PT, PhD, ATC, SCS
Jill FitzGerald, PT, DPT
Alicia D. Flach, PT, DPT, NCS
Ethel Frese, PT, DPT, CCS
Kelly Hawthorne, PT, DPT, GCS
Ann Marcolina Hayes, PT, DPT, OCS
Ginge Kettenbach, PT, PhD
Kim Levenhagen, PT, DPT, WCC
Mark Reinking, PT, PhD, SCS, ATC, Program Director
Randy R. Richter, PT, PhD
Gretchen Salsich, PT, PhD
Darina Sargeant, PT, PhD
Sara Scholtes, PT, DPT, PhD
Chris Sebelski, PT, DPT, OCS, CSCS
Joanne Wagner, PT, PhD
Barb Yemm, PT, DPT, OCS

Athletic Training Program
Anthony Breitbach, PhD, ATC, Program Director
Tim Howell, EdD, ATC, CSCS, Clin. Ed. Coordinator
Michael Markee, ATC, PT, OCS, COMT
Katherine Newsham, PhD, ATC

L. Tyler Wadsworth, MD, Medical Director

Program in Physical Therapy Description:
The Program in Physical Therapy Program is a freshman entry six-year curriculum leading to a Bachelor of Science in Exercise Science (BSES) degree after the fourth year and a Doctor of Physical Therapy (DPT) degree after the sixth year. Students desiring a major in physical therapy should apply to that program as entering freshman, as transfer admission into the program is very limited. The admissions process in physical therapy is competitive and due dates for applications are available on the Program in Physical Therapy website (pt.slu.edu). Progression through the program is based on meeting academic and professional behavior requirements. Students in the Program in Physical Therapy are required to earn a minor or an area of concentration.

Athletic Training Program Description:
The Athletic Training Program is a freshman entry five-year curriculum leading to a BSES degree after the fourth year and a Master of Athletic Training (MAT) degree after the fifth year. Students desiring an undergraduate major in athletic training should apply to that program as entering freshmen, as transfer admission is limited. Application information is available on the Athletic Training Program website (at.slu.edu). Progression through the program is based on meeting academic and professional behavior requirements.

Pre-Medicine and Pre-Physician Assistant curricular tracks are options in both programs. Consult the respective program's website for more information.

The BSES degree is available only to those students admitted to the Program in Physical Therapy or the Athletic Training Program and is not a stand-alone degree program.

Program in Physical Therapy (BSES leading to DPT)

PT Core Requirements

ENGL	190	Adv Strat. of Rhetoric and Research	3
ENGL	202-260, 300-395	Literature	3
		Fine Arts elective[1]	3
PHIL	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
THEO	2XX	Theology elective	3
HIST	111-493	History elective	3
PSY	101	General Psychology	3
PSY	439	Abnormal Psychology	3
MATH	141	Pre-Calculus	3
BIOL	110	Introduction to Biology	4
CHEM	153 & 154	General Chemistry I & II	8
ANAT	100	Basic Human Anatomy	3
PHYS	122 & 124	General Physics I & II	8
PPY	254	Human Physiology	4
IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System & Hlth Promotion	3
IPE	420	Appl. Decision Making in IP Practice	3
IPE	490	Integrative IP Practicum	2
		Foreign Language (through 115 level)	6
		Research Statistics course	3
		Non-specified electives	18
		TOTAL	96

[1]Fine Arts Elective: Any course specified in the college catalog as accepted as a fine arts elective (for Arts and Sciences) will be accepted as a fine arts elective for Physical Therapy. Courses from Study Abroad experiences will be accepted as per the approval of the Program in Physical Therapy Registration Coordinator.

Required Physical Therapy Courses (for BSES)

DPT	108	Student Development I	1
DPT	110	Student Development II	1
DPT	208	Student Development III	1
DPT	210	Student Development IV	1
DPT	403	Documentation	1
DPT	405	Human Growth & Development	3
DPT	411	Kinesiology I	2
DPT	412	Kinesiology II	3
DPT	413	Survey of Disease	3
DPT	414	Exercise Physiology	3
DPT	415	Therapeutic Exercise	2
DPT	420	Developmental Biology	3
DPT	430	Therapeutic Modalities	3
DPT	455	Basic Exam	3
DPT	460	Clinical Research & Design	2
DPT	470	Basic Procedures	2
DPT	484	Skills Practicum	1
DPT	520	Musculoskeletal Conditions I	2
DPT	540	Lab Studies & Imaging	2
DPT	542	Pharmacology	1
ANAT	400	Gross Anatomy	6
ANAT	430	Neuroscience	5
		TOTAL	51

Post-Baccalaureate PT Courses (for DPT)

DPT	507	Applied Neuroscience	2
DPT	508	Professional Development I	1
DPT	510	Professional Development II	2
DPT	512	Professional Development III	1
DPT	519	Biomechanical Interventions	3
DPT	521	Musculoskeletal Conditions II	3
DPT	522	Musculoskeletal Conditions III	4
DPT	523	Musculoskeletal Conditions IV	3
DPT	525	Clinical Gait	2
DPT	526	Neuropathology	2
DPT	527	Neurological Conditions I	4
DPT	528	Neurological Conditions II	2
DPT	529	Cardiopulmonary Conditions	3
DPT	534	Multisystem Management	3
DPT	560	Departmental Administration	2
DPT	561	Applied Administration & Mgmt	2
DPT	563	Evidence Based Practice	2
DPT	565	Components of Eff Comm.& Tchng	3 DPT
	566	Concepts of Wellness	1
DPT	570	Patient Management I	3
DPT	571	Patient Management II	1
DPT	572	Patient Management III	2
DPT	580	Clinical Rotation IA (5 wks)	2
DPT	581	Clinical Rotation IB (5 wks)	2
DPT	582	Clinical Rotation IIA (5 wks)	2
DPT	583	Clinical Rotation IIB (5 wks)	2
DPT	584	Clinical Internship A (10 weeks)	4
DPT	585	Clinical Internship B (10 weeks)	4
DPT	590	Applied Evidence Based Practice	2
DPT	502	Aspects of Nutrition in PT	2
		TOTAL	71

Athletic Training Program (BSES leading to MAT)

AT Core Requirements

EDH	101	Enhancing 1st Year Success	1
ENGL	190	Adv Strat Rhetoric and Research	3

ENGL	202-260, 300-395 Literature		3
	Fine Arts elective[1]		3
PHI	105	Introduction to Philosophy	3
PHIL	205	Ethics	3
THEO	100	Theological Foundations	3
THEO	2xx	Theology elective	3
HIST	1xx	History elective	3
	Foreign Language (through 115 level)		6
PSY	101	General Psychology	3
PSY	2xx	Psychology elective	3
MATH	141	Precalculus	3
BIOL	110	Introduction to Biology	4
CHEM	153 & 154	General Chemistry I & II	8
ANAT	100	Basic Human Anatomy	3
PHYS	122 & 124	General Physics I & II	8
PPY	254	Human Physiology	4
STAT	110	Statistics	3
IPE	110	Intro to Interprofessional Health Care	1
IPE	350	Health Care System & Hlth Promotion	3
IPE	420	Appl. Decision Making in IP Practice	3
IPE	490	Integrative IP Practicum	2
	Non-specified electives		15
	TOTAL		94

[1]Fine Arts Elective: Any course specified in the college catalog as accepted as a fine arts elective (for Arts and Sciences) will be accepted as a fine arts elective for Physical Therapy. Courses from Study Abroad experiences will be accepted as per the approval of the Program in Physical Therapy Registration Coordinator.

Required Athletic Training Courses (for BSES)

MAT	100	Introduction to Athletic Training	1
MAT	200	AT Student Development	1
MAT	300	AT Student Development II	2
MAT	414	Exercise Physiology	3
ANAT	400	Gross Anatomy	6
MAT	430	Therapeutic Modalities	3
MAT	501	Principles of Athletic Training	3
MAT	510	Athletic Training Kinesiology	3
MAT	516	Bioenergetics of Athletic Performance	3
MAT	524	Musculoskeletal Assessment and Management I	4
MAT	525	Musculoskeletal Assessment and Management II	4
MAT	550	Rehabilitation in Athletic Training I	4
MAT	562	Psychology of Sport and Injury	3
MAT	580	Medical Conditions in AT	3
	TOTAL		43

Post-Baccalaureate AT Courses (for MAT)

MAT	540	Lab Studies and Imaging	2
MAT	555	Rehabilitation in Athletic Training II	3
MAT	560	Athletic Training Administration	3
MAT	565	Research in Athletic Training	2
MAT	570	AT Clinical Practicum I	3
MAT	575	AT Clinical Practicum II	3
MAT	590	AT Field Experience	2
MAT	595	AT Clinical Practicum III	4
MAT	616	Enhancing Athletic Performance	3
MAT	670	AT Capstone Project	2
MAT	671	AT Clinical Practicum IV	4
MAT	680	Seminar in Athletic Training	3
	TOTAL		34