Program-Level Assessment Plan



Program: Ph.D. Anatomy program	Degree Level (e.g., UG or GR certificate, UG major, master's program, doctoral program): Doctoral	
	Program	
Department: Center for Anatomical Science and	College/School: Medicine	
Education		
Date (Month/Year): July 21, 2021	Primary Assessment Contact: john.martin@health.slu.edu	

Note: Each cell in the table below will expand as needed to accommodate your responses.

#	Student Learning Outcomes	Curriculum Mapping	Assessme	nt Methods
	What do the program faculty expect all students to know or be able to do as a result of completing this program? Note: These should be measurable and manageable in number (typically 4-6 are sufficient).	In which courses will faculty intentionally work to foster some level of student development toward achievement of the outcome? Please clarify the level at which student development is expected in each course (e.g., introduced, developed, reinforced, achieved, etc.).	 Artifacts of Student Learning (What) 1. What artifacts of student learning will be used to determine if students have achieved this outcome? 2. In which courses will these artifacts be collected? 	 Evaluation Process (How) 1. What process will be used to evaluate the artifacts, and by whom? 2. What tools(s) (e.g., a rubric) will be used in the process? Note: Please include any rubrics as part of the submitted plan documents.
1	 KNOWLEDGE OF PRACTICE: 1. Students will demonstrate competency in general knowledge of the core anatomical subjects (human gross anatomy, microscopic anatomy, neuroanatomy, embryology, and physiology). i) Describe prenatal human development with an emphasis on the correlation of normal embryological development with common 	For SLO 1-i): Students enroll in ANAT-5200 Human Embryology during the Fall semester of the academic year. After completing this course students are expected to have mastered the conceptual basis of developmental anatomy through lectures, small group activities, a research article presentation, and examinations. For SLO 1-ii): Students enroll in ANAT-5100 Human Histology and Ultrastructure during the Fall semester of the academic year. After completing this course students are expected to recognize the	 For SLO 1-i): 1. Direct measures of student performance include: 3 written (multiple choice question) examinations and an evaluation of a research article presentation. Indirect measures of student performance include participation in course discussions and small group (Peer Instruction) activities. 2. Artifacts will be collected from 3 exams and 1 presentation of ANAT-5200 Human Embryology. 	For SLO 1-i): 1. Summary reports of each of the 3 exams will be provided using assessment software (ExamSoft). The summary report will be used by the course director to evaluate student performance and individual question performance. Student performance on exam questions answered below a certain threshold, as determined by the course director, are assumed to be poor questions, and are removed from the exam. Summary reports of each research article presentation will be

congenital malformationsnormationsii) Identify and describe the
microscopic andtissue
perforultrastructural features of the
human body with an
emphasis on clinical
application of the structure
and function of tissues and
organsgroup
form to
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to the
histolo
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orient
and key homeostatic
processes within cells,normat
tissue
perfor

tissues, and organ systems iv) Identify and describe the normal structure and function of the human body with an emphasis on anatomical relationships and clinical significance

v) Identify and describe the structure and function of the human nervous system with an emphasis on functional neuroanatomical systems, concepts of key neurobiological processes, and correlation of clinical presentation with nervous system lesions

through participation in didactic, small group discussions, interactive laboratories, and

normal microscopic anatomy of human tissues, understand how cells associate to perform the functions for which they are specialized, understand how organized groups of cells (tissues) are arranged to form the organ systems of the body, correlate the cellular structure of organs to their specific functions, integrate histological knowledge with other anatomical science subjects (anatomy, embryology, neuroanatomy, and physiology) and recognize and use correct terminology to describe relationships, orientation, development, and movement of microanatomical structures within the human body through lectures, laboratories, small group activities, discussion sessions and examinations.

For SLO 1-iii): Students enroll in ANAT-5400 Human Systems Physiology during the Fall semester of the academic year. After completing this course students are expected to describe normal cellular functions and how these are responsible for essential functions of the major human organ systems, delineate the normal interactions among organ systems that collectively promote homeostasis of the entire body, and identify normal compensatory mechanisms of organ systems to changing substrate availability, metabolic demand, and environmental stress through lectures, laboratories, small group activities, discussion sessions and examinations.

For SLO 1-iv): Students enroll in ANAT-

For SLO 1-ii): 1. Direct measures of student performance include: 3 written (multiple choice questions and short answer questions) and laboratory (practical) examinations. Indirect measures of student performance include completion of laboratory worksheets, participation in course discussions and small group (Team Based Learning) activities.

2. Artifacts will be collected from ANAT-5100 Human Histology and Ultrastructure

For SLO 1-iii): 1. Direct measures of student performance include: 4 written (multiple choice questions) examinations. Indirect measures of student performance include participation in course discussions and small group (Team Based Learning) activities.

2. Artifacts will be collected from ANAT-5400 Human Systems Physiology

For SLO 1-iv): 1. Direct measures of student performance include: 4 written (multiple choice questions) examinations, 4 laboratory practical examinations and 4 quizzes. Indirect used by the course direct to assess various presentation categories. Data and student course evaluations are reviewed by the individual course director, as well as with other course faculty and during faculty meetings. The CASE Director also monitors the process and works with the course director.

2. ExamSoft summary reports and research article presentation assessment rubric form will be used in the process.

For SLO 1-ii): 1. Summary reports of each of the 3 written (multiple choice) exams will be provided using assessment software (ExamSoft). The summary report will be used by the course director to evaluate student performance and individual guestion performance. Assessment of short answer questions will be completed by the course director. Laboratory practical exams are graded by the course director and individual questions and performance on each question is tallied. Student performance on exam questions answered below a certain threshold, as determined by the course director, are assumed to be poor questions, and are removed from the exam. Data and student course evaluations are reviewed by the individual course

porformaria	on written and	E000 Human Croce Anatomy during the	manuras of student performance	director, as well as with other source
•	e on written and	5000 Human Gross Anatomy during the	measures of student performance	director, as well as with other course
laboratory ex		Spring semester of the academic year.	include participation in course	faculty and during faculty meetings.
These prima		After completing this course students are	dissections and participation in	The CASE Director also monitors the
outcomes sh		expected to recognize and use correct	laboratory practice practical exams.	process and works with the course
prepare the		anatomical terminology to describe the		director.
successful ad		relationships, movement, and orientation	2. Artifacts will be collected from	
medical, allie		of structures in the human body, describe	ANAT-5000 Human Gross Anatomy	2. ExamSoft summary reports will be
professional,		the form and basic function of major		used in the process.
advanced gra	aduate programs.	anatomical systems of the human body,		
		identify (name and locate) major	For SLO 1-v): 1. Direct measures of	
2) Students v	will demonstrate	anatomical structures as discussed in	student performance include: 6	For SLO 1-iii): 1. Summary reports of
competency		lecture and lab, correlate various imaging	written (multiple choice questions	each of the 4 written exams will be
	of the application	modalities (radiograph, CT, MRI) with	and short answer questions)	provided using assessment software
-	ientific literature,	structures discussed in lecture and lab,	examinations, 5 laboratory practical	(ExamSoft). The summary report will
especially in	,	contribute to the education of yourself	examinations and 6 quizzes. Indirect	be used by the course director to
representing		and your peers by actively engaging in	measures of student performance	evaluate student performance and
	through framing	laboratory and peer-teaching sessions,	include participation in assigned	individual question performance.
hypotheses-o		and identify and discuss clinical	dissections and participation in	Student performance on exam
	, independent	manifestations of anatomical problems	laboratory practice practical exams.	questions answered below a certain
	the completion	through lectures, laboratories, small group		threshold, as determined by the
-	work; and 2) the	activities and examinations.		course director, are assumed to be
	of designing and		2. Artifacts will be collected from	poor questions, and are removed from
	experiments and	For SLO 1-v): Students enroll in ANAT-5300	ANAT-5300 Human Systems	the exam. Data and student course
	nd interpret data.	Human Systems Neurobiology during the	Neurobiology	evaluations are reviewed by the
to analyze al	iu interpret uata.	Spring semester of the academic year.		individual course director, as well as
		After completing this course students are	For SLO1-2) 1. Direct measures of	with other course faculty and during
		expected to demonstrate competency as	student performance will include a	faculty meetings. The CASE Director
		evidenced by the ability to identify and	grade in a final presentation in	also monitors the process and works
		describe the structure and function of the	ANAT-5440 Basic Research	with the course director.
		human nervous system with an emphasis	Techniques in Anatomy, BBSG-510	
		on functional neuroanatomical systems,	Ethics for Research Scientists, BST-	_
		concepts of key neurobiological processes,	5000 Principles of Biostatistics,	2. ExamSoft summary reports will be
		and correlation of clinical presentation	ANAT-6950 Special Studies for	used in the process.
		with nervous system lesions through	Exams and a rubric in ANAT-6990.	
		participation in didactic lectures, small	Indirect measures of student	For SLO 1-iv): 1. Summary reports of
		group discussions, and performance on	performance include participation in	each of the 4 written (multiple choice)
		written and laboratory examinations.	course discussions, progress	exams will be provided using
			course discussions, progress	channs will be provided using

For SLO 1-2) Students will enroll in ANAT- 5440 Basic Research Techniques in Anatomy, BBSG-510 Ethics for Research Scientists, BST-5000 Principles of Biostatistics, ANAT-6950 Special Studies for Exams and ANAT-6990 Journal Club. After completing these courses students are expected to be able to understand fundamental techniques and instrumentation; understand principles underlying preparation of material for histological, histochemical, and ultrastructural examination and interpretation of results, critically evaluate current scientific knowledge through laboratory participation, assigned readings, discussions with principal investigator, and oral and written presentations.	meetings with faculty, and completion of laboratory experiences. 2. Artifacts will be collected from ANAT-5440 Basic Research Techniques in Anatomy and in ANAT-6990 Journal Club.	assessment software (ExamSoft). The summary report will be used by the course director to evaluate student performance and individual question performance. Laboratory practical exams are graded by the course faculty and individual questions and performance on each question is tallied. Summary reports of each of the 4 quizzes will be provided using assessments in learning management system (Blackboard or Canvas). Student performance on exam questions answered below a certain threshold, as determined by the course director, are assumed to be poor questions, and are removed from the exam. Data and student course evaluations are reviewed by the individual course director, as well as with other course faculty and during faculty meetings. The CASE Director
		 also monitors the process and works with the course director. 2. ExamSoft summary reports will be used in the process. Assessments in learning management system (Blackboard or Canvas) will also be used in the process. For SLO 1-v): 1. Summary reports of each of the 6 written (multiple choice) exams will be provided using assessment software (ExamSoft). The summary report will be used by the

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determine whether the student is			6990 is graded by a 5-member
			committee. The information is used to
making progress in the program. to			determine whether the student is
			making progress in the program, to

				 identify weaknesses in their knowledge base that need to be remediated. Student performance data is discussed each semester at faculty meetings and recommendations are made to be discussed with each student during progress meetings. 2. Summary reports of ANAT-6900 journal club rubric form will be used in the process.
2	SKILLS OF INQUIRY, CRITICAL THINKING AND PROBLEM SOLVING: Students will demonstrate: 1) the ability to gather data to verify the existence of a problem, conduct extended research/analysis into a problem/topic, evaluate the evidence, generate ideas for possible solutions and formulate a thesis based on analysis; and 2) the ability to read materials carefully and analyze them critically.	For SLO 2: Students will enroll in ANAT- 5440 Basic Research Techniques in Anatomy, ANAT-6950 Special Studies for Exams and ANAT-6900 Journal Club, and ANAT-6990 Dissertation Research.	 Direct measures of student performance will include a grade in a final presentation in ANAT-5440 Basic Research Techniques in Anatomy, a rubric in ANAT-6990 and a grade in ANAT-6990 Dissertation Research and a grade in the written doctoral qualifying exam. Artifacts will be collected and will include the following: 1) project reports from required and elective courses; 2) lab reports; 3) embedded exam questions in required and elective courses; and 4) dissertation research and written preliminary examination. Oral presentations from Journal Club, seminar, doctoral written examination, oral preliminary examination and dissertation defense will similarly be evaluated. 	 Student performance for written material and oral presentations is measured through use of grading rubrics that evaluate the following dimensions: 1) understanding of the problem to be solved; 2) statement of hypotheses made; 3) conceptual dimensions of reasoning; 4) empirical dimensions of reasoning; and 5) statement of thesis and inference drawn. Other evaluations include: participation in course discussions, progress meetings with faculty, and completion of laboratory experiences, and annual student reviews, and course evaluations. Student performance data is discussed each semester at faculty meetings and recommendations are made to be discussed with each student during progress meetings.
3	COMMUNICATION SKILLS:	For SLO 3: Students will enroll in ANAT-	1. Direct measures of student	1. Student performance of written

	Students will demonstrate: 1)	5440 Basic Research Techniques in	performance will include a grade in	communication will evaluate the
1	written communication skills	Anatomy, ANAT-6950 Special Studies for	a final presentation in ANAT-5440	following dimensions: 1) knowledge of
	with respect to clarity, use of	Exams and ANAT-6900 Journal Club, and	Basic Research Techniques in	the literature, 2) ability to formulate
	appropriate grammar, syntax	ANAT-6990 Dissertation Research.	Anatomy, a rubric in ANAT-6990 and	research questions as hypotheses to
	and vocabulary appropriate		a grade in ANAT-6990 Dissertation	be tested, 3) relevance of the data to
	to the development of a NIH-		Research and a grade in the written	specific aims, 4) soundness of the
	style grant proposal;		doctoral qualifying exam.	conclusions drawn from the data, 5)
	organizes research materials			treatment of alternative
	to support an original thesis;		2. Artifacts will be collected and will	interpretations of the data, 6)
	and, present ideas and			completion of specific aims and the
	arguments clearly, logically		include the following: grading rubrics of written presentations that	ability to foresee and address
	and with an appropriate		Other evaluations include:	questions, and 7) appropriate use of
	balance of text and graphic		participation in course discussions,	research references and resources.
	materials; and 2) oral		progress meetings with faculty, and	Similarly, oral presentations will
	communication skills with		completion of laboratory	evaluate the following dimensions: 1)
	respect to designing,		experiences, annual student reviews	content, 2) use of appropriate data, 3)
	organizing and presenting		and course evaluations.	organization and clarity, 4) audio and
	main points concisely and			visual support devices, and 5)
	clearly; providing persuasive			appropriate verbal and physical
	arguments, using data and information, that are			support mechanisms.
	appropriate for the audience			
	and occasion; using language			2. Student performance data is
	vocal variety, pronunciation			discussed each semester at faculty
	and physical behaviors that			meetings and recommendations are
	support the verbal message			made to be discussed with each
	for the audience and			student during progress meetings.
	occasion; using visual aids			
	appropriate for technical			
	presentation, and ability to			
	answer audience questions.			
4				

5		

Use of Assessment Data

1. How and when will analyzed data be used by program faculty to make changes in pedagogy, curriculum design, and/or assessment practices?

An Anatomy Graduate Oversight committee will meet every summer semester to implement changes based on the assessment data.

2. How and when will the program faculty evaluate the impact of assessment-informed changes made in previous years?

An Anatomy Graduate Oversight committee will meet every summer semester to evaluate the impact of assessment-informed changes.

Additional Questions

1. On what schedule/cycle will program faculty assess each of the program's student learning outcomes? (Please note: It is <u>not recommended</u> to try to assess every outcome every year.)

Assessments will occur annually, assessing one outcome each year.

2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

At the directive of the SOM Associate Dean for Faculty Affairs and Professional Development and the University Assessment Director the Anatomy Graduate Director (Dr. John Martin), Anatomy Graduate Associate Director (Dr. Dan Daly) and the Graduate Programs Coordinator (Patricia Anderson) meet and identified and implemented this plan.

IMPORTANT: Please remember to submit any rubrics or other assessment tools along with this plan.