reviewed	(undated	122021
I C V I C W C U	ubualeu	1:2021

## 1. StudentLearning Outcomes

Which } ( š Z % Œs)tuRi@Et lea[ming outcomes were assessmenth by annual assessment cycl@Please provide š Z } u % o š o] • š } ( š Z % Œ } P Œ u [ • o @EoMolitivePSL)Qusšas}essedšin thisucycle. • v

Outcome 1:Studentswill show competency in the asic principles of Pharmacology and bysiology.

Outcome 2 Students will write a research proposal and become competent at the basic essentials of grant writing specifically in how to formulate and test scientific hypotheses.

## 2. Assessment Methods: Artifacts Student Learning

Which artifactsof student learningwere used to determine if students achieved the utcome(s)? Pleaselescribe the artifacts indetail, identify the course(s) in which were collected and if they are from program majors/graduates and/or other student clarify if any such courses were offered a) on the Madrid campus or c) at any other of campus location.

Outcome 1 The artifacts of student learning used to determine achievement of outcome mpetency in the basic principles of Pharmacology & Physiologycluded regular attendance mswers to written exam question (PPY 5110, 5120, 5130), and oral presentations of independent research topics (PPY 5120as 100) as regular participation in journal club presentations and discussions (PPY 6200) attendance at seminars (PPY 6800).

Outcome 2 PPY 5140 is a grant writing course and artifacts used to determine outcomes include regular attend in all formal class sessions of PPY 5140, regular communication with their mentoring team, their final written prand participation in a mock stay section.

None of thesecourses æ offered online or at the Madrid campus.

sheetsfor oral presentations of independemesearch topics (PPY 5120 and 5)12and of journal club presentations PPY 690.0Rubrics for evaluating presentations ameluded with this report

Outcome 2 PPY 5140 is grant writing course and as sutthe students are instructed as to what comprises the different aspects of an NIH R01 research grant. They then construct a grant based on their proposed lab research

Changes to the Assessment Plan

Student learning outcomes Artifacts of student learning Evaluation process Evaluation tools (e.g., rubrics)
Datacollection methods
Frequency of data collection

Pleasedescribethe actionsyou are taking as a result of the findings.

Outcome 1 For the 2023/2024 academic year we have changed the form (at stimulation) with the presentations and student led presentations, keeping instructor led didactic lectures to a minimum.

Outcome 2 We are currently reviewing an**e**fining our grant writing course PPY 514, to incorporate update review criteria and be formatted to a proposal that students can utilize to apply for research funding.

We should note that our program underwent a departmental sessessment and an external review this year Thereviewers agreed with the changes are making our curriculum (particularly the teaching techniques) and encouraged us to move forward in this process.

If no change**s**re beingmade, please explain why. N/A

Grading Rubric for PPY 5120/5130 Class Presentat ons - 48 points total

1) The T	
a. b c.	Was the logical layout clear?
Commen	ts:
2) Depti a. b c.	
Commen	
3) How a. b	draw their own conclusions about their chosen topic?
a.	express their own thoughts about their chosen topic? draw their own conclusions about their chosen topic? out of 12 points
a. b ————Commen	express their own thoughts about their chosen topic? draw their own conclusions about their chosen topic? out of 12 points
a. b ————Commen	express their own thoughts about their chosen topic? draw their own conclusions about their chosen topic?out of 12 points ts:  well did students answer the faculty quest ons af er their presentat on?out of 12 points

General Comments:

## PPY 514 Grant Writing Course Student Proposal Grade Sheet 800 Points Total (80% of Final Grade)

Student Name:		Total Score:	
Grader Name:			
Āre all the ele	f proposal (250 points): ements of the proposal (Spe ign) completed and approp	ecific Aims, Significance, Innovation,	
	sal (250 points):oothesis and goals of the pr	roposal clearly articulated?	
Are the Aims	4 4	 experiments adequately address the justified by Signific <b>[</b> \$if)&e <b>5</b> ( Sig <b>T</b> [e(() <b>43</b>	<b>Ђа Ц</b> р)н ) <b>Т</b> ( <b>Д) Ф</b> го (u)i