

Core Curriculum Annual Assessment

Year	2022-23
Course number and Name:	INEN 2301 Quantitative Methods
Component area:	Other
Number of sections offered:	Spring 23 one section, Fall 23 one section
Number of students enrolled:	10 +18 = 28
Contact Person (include email & Phone#)	James Curry James.curry@lamar.edu 248-802-5891

Summary of Continuous Improvement Efforts since Last Report

Provide a brief description of how assessment results have been used for core course improvement. Point to a specific example of how an assessment provided the department with data it could use for improvement and what that improvement was, if possible, also show evidence of the improvement. You may look at data from the two previous academic years to support this case.

Respond here:

Improvement 1

Identification

This course uses a website provided by the publisher of the textbook. Students were having difficulties maneuvering through the website. This inability caused students to miss out on learning tools provided by the publisher.

Improvement

A video was produced titled "A Tour of Mylab." In the video students are shown how to navigate the website and unlock the tools provided by the publisher.

Result

Data collected will be analyzed at the end of the Spring 2023 semester.

Improvement 2

Core Curriculum Annual Assessment

The majority of online students are not watching lecture videos. Approximately 40% of the students watch videos. Not watching the lectures leads to confusion and poor understanding of the subject matter.

Improvement

A percentage of the student's exam grades will come from watching the lecture videos.

Result

Data collected will be analyzed at the end of the Spring 2023 semester.

Improvement 3

Students are not reading the syllabus. This is evident by students asking questions that are answered in the syllabus and by losing points on laboratories, quizzes, and exams.

Improvement

A video was produced and distributed to the students titled "Syllabus Discussion."

Result

Eighteen of twenty-seven students, 66%, have watched the video before the first three weeks of the semester. Sixty-six percent will be the baseline for further improvements

Improvement 4

Most students work. The schedules they work vary from straight days to different variations of shift work. Because of these constraints, some students can only work on classwork on weekends. Students sometimes need answers to questions they cannot ask during regular weekly schedules. Because their questions can't be answered, their understanding of the topic is suboptimal, and their grade suffers.

Improvement

Core Curriculum Annual Assessment

I have made myself accessible to students on weekends as necessary, including email, phone conferences, and meetings on Collaborate Ultra.

Result

Students' questions are answered, giving them the tools they need to succeed in this course.

Course highlights Since Last Report

Identify and briefly discuss any changes made to the course since the last report.

Respond here:

None beyond the above improvement plans.

Core Curriculum Annual Assessment

Table 1. Assessment Results and Analysis for Current Cycle

Stage 1: PLAN			STAGE 2: DO		Stage 3: STUDY	
General Education Competencies Addressed in this Course:	Assessment Method(s) – e.g. pre/post tests, embedded questions, portfolio evaluation, rubric-scored essay; list only activities for which you are reporting assessment data	Proficiency – e.g. the proficient student will correctly answer 5 out of the 6 embedded questions on the final exam	Benchmark – e.g. 80% of students taking the final exam will correctly answer 5 of the 6 embedded questions on the final exam	Results of course assessment(s)	Analysis of results – e.g. strengths and weaknesses What does this data tell you? How will you use this data? How were data from the last cycle used to make changes during this cycle, and what were the results of those changes?	Recommendations for Course based on assessment
Communication (required)	Review of student work on exam for related questions.	Shows ability to define key terms and concepts, determine random variable, find and interpret the covariance and correlation between two random variables, find and interpret the expected value and standard deviation or	80% of students demonstrate an ability to do the tasks.	83.3% successful	The changes implemented in the course have resulted in good performance on the tasks.	

Core Curriculum Annual Assessment

		variance of random variables.				
Critical Thinking (required)	Review of student work on exam for related questions.	Is able to use the language of probability to represent uncertain outcomes as random variables, manipulate the mean, variance, and standard deviation of random variables when transformed, and find the mean, standard deviation, and variance of random variables.	80% of students demonstrate an ability to do the tasks.	88%		

Core Curriculum Annual Assessment

Select One: <input checked="" type="checkbox"/> Empirical & Quantitative Skills <input type="checkbox"/> Teamwork <input type="checkbox"/> Social responsibility <input type="checkbox"/> Personal Responsibility	Review of student work on exam for related questions.	Shows a good ability to speak, read, and understand the language and concepts of probability, find complements, intersections, and unions of events, work with the Law of Large Numbers, apply rules of probability.	80% of students demonstrate an ability to do the tasks.	94%		
Select One: <input checked="" type="checkbox"/> Empirical & Quantitative Skills <input type="checkbox"/> Teamwork <input type="checkbox"/> Social responsibility <input type="checkbox"/> Personal Responsibility	Review of student work on exam for related questions.	Has a good ability to distinguish joint, marginal, and conditional probabilities, use the rules and notation of probability, find	80% of students demonstrate an ability to do the tasks.	83%	We need to work on more direct measures of social responsibility.	

Core Curriculum Annual Assessment

		conditional probabilities, and use conditional probability to describe dependent events.				
--	--	--	--	--	--	--

Core Curriculum Annual Assessment

Table 2. Continuous Improvement Results Since Last Report

STAGE 4: ACT		
Actions/Goals based on data results <i>*copy last cycles actions/goals and report on progress toward continuous improvement on those here</i>	Status <i>C=Complete</i> <i>P=Progressing</i> <i>N=No action taken</i>	Discussion of status <i>If C, describe efforts that led to accomplishment of actions/goals</i> <i>If P, provide update on progress made toward accomplishing actions/goals and what tasks remain</i> <i>If N, discuss why action toward accomplishing actions/goals has been delayed and what work will be initiated toward accomplishment.</i>
Review topics of BSIT degree to make sure pre-rec structure is correct.	N	
Adjust our assessment to better cover all the areas.	P	We are working on measures of Personal Responsibility in the assesement of the course. Next year we will use percent of video watched and assignment / course completion.