Assessment Plan

Program: Applied Science and Sustainability

Date: 5/22/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
The student will be able to apply the scientific method to research problems in applied science and sustainability	BIOL 200 Lab Final Project BIOL 202 Ecology Section Exams BIOL 342 Various Lab Assignments BIOL 343 Various Lab Assignments BIOL 377 Various Lab Assignments BIOL 496 Lit Review	every fall every fall every other fall every other fall every other spring every fall	Mastery as indicated by score of 70% or higher	Annually in May
Apply classroom theory to practical applications	BIOL 200 Weekly Discussion Post BIOL 202 Lab exercises ENVR 342 Field Trips ENVR 343 Field Trips ENVR 377 Lab Projects GSCI 111 Soil Quality Lab	every fall every fall every other fall every other fall every other even spring every fall, every spring	Mastery as indicated by score of 70% or higher	Annually in May
Use technology associated with the study of applied science and sustainability	BIOL 200 Lab exercise field trip BIOL 202 Lab exercise field trip ENVR 342 Lab exercise field tip ENVR 343 Lab exercise field tip ENVR 377 water quality lab ENVR 496 Final paper draft GSCI 111 Soil quality lab CHEM 111,112 laboratory notebook	every fall every fall every other fall every other fall every other even spring every fall every fall, every spring every fall, every spring	Mastery as indicated by score of 70% or higher	Annually in May
Communicate a scientifically informed world view through writing.	ENVR 342 habitat observation project ENVR 343 field lab experiment ENVR 377 env. Impact lab ENVR 496 lit review paper	every other fall every other fall every other even spring every fall	Mastery as indicated by score of 70% or higher	Annually in May

Applied Science and Sustainability Program Learning Outcomes

Date: 5/21/2020

Upon completion of the Applied Science and Sustainability program, students will be able to:

1. The student will be able to apply the scientific method to research problems in applied science and sustainability
2. Apply classroom theory to practical applications
3. Use technology associated with the study of applied science and sustainability
4. Communicate a scientifically informed world view through writing.

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Assessment Plan

Program: Applied Mathematics

Date: 5/1/2020

Outcomes	Assessment	Date Administered	Criteria	Schedule for Review
1. Develop problem solving skills	1. Math 231 – Related rates assessment (quiz or exam) 2. Math 232 – Solids of revolution assessment (quiz or exam) 3. Math 232 – Integration techniques (quiz or exam) 4. Math 431 Final exam 5. Phys 231 Quiz 3 6. Phys 232 Quiz 1	1. Fall semester 2. Spring semester 3. Spring semester 4. Spring semester 5. Fall semester 6. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May
2. Improve technological skills	1. Math 210 Hypothesis testing assignment 2. Math 431 modeling assignment	1. Fall and spring semesters 2. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Model electromagnetic processes	1. Phys 232 Electricity and magnetism quiz score 2. Phys 245 series/parallel quiz score	1. Spring semester 2. Every other spring semester	Mastery as indicated by score of 70% or higher	Annually in May
4. Model mechanical processes	1. Phys 231 Circular Motion quiz score 2. Phys 231 Statics quiz score	1. Fall semester 2. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

5. Model thermodynamic processes	1. Phys 232 Thermodynamics quiz score	1. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May

Mathematics Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Mathematics program, students will be able to:

1. Develop problem solving skills
2. Improve proof techniques
3. Improve technological skills
4. Model real-life phenomena

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Assessment Plan

Program: Biology

Date: 5/1/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
1. Develop understanding of function/structure/classification of life	1. BIOL 200-Unit exams 2. BIOL 201-Taxonomy unit test 3. BIOL 201-Laboratory midterm exam 4. BIOL 202-Plant taxonomy project 5. BIOL 202-Children's book 6. BIOL 202-Botany laboratory exam 7. BIOL 311-Chapter pretests 8. BIOL 311-Unit exams 9. BIOL 311-Laboratory midterm exam 10. BIOL 311-Laboratory final exam 11. BIOL 311-Laboratory final exam 12. BIOL 312-Medical terminology quizzes 13. BIOL 312-unit exams 14. BIOL 312-Laboratory midterm exam 15. BIOL 312-Laboratory final exam 16. BIOL 312-Laboratory review sheets 17. BIOL 334-Chapter exams 18. BIOL 341-Unit exams 19. BIOL 342-Missouri plant identification exam	1. Fall semester 2. Spring semester 3. Spring semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Fall semester 8. Fall semester 9. Fall semester 10. Fall semester 11. Fall semester 12. Spring semester 13. Spring semester 14. Spring semester 15. Spring semester 16. Spring semester 17. Fall semester 18. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May

		19. Fall odd years		
2. Effectively communicate principles of biology through oral means	1. BIOL 200-Group investigation presentation 2. BIOL 200-Class oral participation 3. BIOL 202-Oral presentation of human effects project 4. BIOL 202-Annotated bibliography presentation 5. BIOL 312-Class oral participation 6. BIOL 335-Disease team presentation 7. BIOL 335-Exam 2 in office 8. BIOL 338-Team paper presentation 9. BIOL 342-Group investigation presentation 10. BIOL 343-Group investigation presentation 11. BIOL 437-Team presentation 12. BIOL 496-Oral presentation	1. Fall semester 2. Fall semester 3. Fall semester 4. Fall semester 5. Spring semester 6. Spring semester 7. Spring semester 8. Spring semester 9. Fall odd years 10. Fall even semester 11. Spring semester 12. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Effectively communicate principles of biology through written means	1. BIOL 200-Group investigation lab report 2. BIOL 200-Conference day session 3. BIOL 201-Laboratory reports 4. BIOL 202-Annotated bibliography 5. BIOL 334-Case studies 6. BIOL 334-Physician transcript evaluation 7. BIOL 335-Team case study worksheet 8. BIOL 335-Take home exam 9. BIOL 338-Session A exam 10. BIOL 338-Final exam 11. BIOL 341-Laboratory journal 12. BIOL 342-Group investigation lab report	1. Fall semester 2. Fall semester 3. Spring semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Spring semester 8. Spring semester 9. Fall semester 10. Fall semester 11. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May

	13. BIOL 343-Group investigation lab report 14. BIOL 437-Exam 1 15. BIOL 437-Exam 2 16. BIOL 437-Exam 3 17. BIOL 496-Literature review paper	12. Fall odd years 13. Fall even semester 14. Spring semester 15. Spring semester 16. Spring semester 17. Fall semester		
4. Demonstrate proficiency in laboratory and field techniques	1. BIOL 200-Laboratory I-forms 2. BIOL 201-Laboratory reports 3. BIOL 202-Laboratory notebook 4. BIOL 335-Microbiology unknown lab project 5. BIOL 338-Laboratory notebook 6. BIOL 342-Laboratory notebook 7. BIOL 343-Laboratory notebook	1. Fall semester 2. Spring semester 3. Fall semester 4. Spring semester 5. Fall semester 6. Fall odd years 7. Fall even years	Mastery as indicated by score of 70% or higher	Annually in May
5. Demonstrate ability to know, analyze, and synthesize scientific principles	1. BIOL 200-Laboratory exam 2. BIOL 200-Scientific journal analysis 3. BIOL 202-Children's book 4. BIOL 202-Photosynthesis unit paper 5. BIOL 202-Annotated bibliography 6. BIOL 202-Laboratory exam 7. BIOL 311-Scientific journal/case study analysis 8. BIOL 312-Scientific journal/case study analysis 9. BIOL 335-Disease team presentation 10. BIOL 335-Exam 1 11. BIOL 335-Exam 2 12. BIOL 335-Exam 3 13. BIOL 338-Session A exam 14. BIOL 338-Final exam 15. BIOL 338-Team paper presentation 16. BIOL 342-Final exam 17. BIOL 343-Final exam 18. BIOL 437-Exam 1 19. BIOL 437-Exam 2 20. BIOL 437-Exam 3	1. Fall semester 2. Fall semester 3. Fall semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Fall semester 8. Spring semester 9. Spring semester 10. Spring semester 11. Spring semester 12. Spring semester 13. Fall semester 14. Fall semester 15. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

		16. Fall odd years 17. Fall even years 18. Spring semester 19. Spring semester 20. Spring semester		

Biology Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Biology program, students will be able to:

1. Develop understanding of function/structure/classification of life
2. Effectively communicate principles of biology through oral means
3. Effectively communicate principles of biology through written means
4. Demonstrate proficiency in laboratory and field techniques
5. Demonstrate ability to know, analyze, and synthesize scientific principles

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Assessment Plan

Program: Biology Education

Date: 5/1/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
1. Develop understanding of function/structure/classification of life	1. BIOL 200-Unit exams 2. BIOL 201-Taxonomy unit test 3. BIOL 201-Laboratory midterm exam 4. BIOL 202-Plant taxonomy project 5. BIOL 202-Children's book 6. BIOL 202-Botany laboratory exam 7. BIOL 311-Chapter pretests 8. BIOL 311-Unit exams 9. BIOL 311-Laboratory midterm exam 10. BIOL 311-Laboratory final exam 11. BIOL 311-Laboratory final exam 12. BIOL 312-Medical terminology quizzes 13. BIOL 312-unit exams 14. BIOL 312-Laboratory midterm exam 15. BIOL 312-Laboratory final exam 16. BIOL 312-Laboratory review sheets 17. BIOL 334-Chapter exams 18. BIOL 341-Unit exams 19. BIOL 342-Missouri plant identification exam	1. Fall semester 2. Spring semester 3. Spring semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Fall semester 8. Fall semester 9. Fall semester 10. Fall semester 11. Fall semester 12. Spring semester 13. Spring semester 14. Spring semester 15. Spring semester 16. Spring semester 17. Fall semester 18. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May

		19. Fall odd years		
2. Effectively communicate principles of biology through oral means	1. BIOL 200-Group investigation presentation 2. BIOL 200-Class oral participation 3. BIOL 202-Oral presentation of human effects project 4. BIOL 202-Annotated bibliography presentation 5. BIOL 312-Class oral participation 6. BIOL 335-Disease team presentation 7. BIOL 335-Exam 2 in office 8. BIOL 338-Team paper presentation 9. BIOL 342-Group investigation presentation 10. BIOL 343-Group investigation presentation 11. BIOL 437-Team presentation 12. BIOL 496-Oral presentation	1. Fall semester 2. Fall semester 3. Fall semester 4. Fall semester 5. Spring semester 6. Spring semester 7. Spring semester 8. Spring semester 9. Fall odd years 10. Fall even semester 11. Spring semester 12. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Effectively communicate principles of biology through written means	1. BIOL 200-Group investigation lab report 2. BIOL 200-Conference day session 3. BIOL 201-Laboratory reports 4. BIOL 202-Annotated bibliography 5. BIOL 334-Case studies 6. BIOL 334-Physician transcript evaluation 7. BIOL 335-Team case study worksheet 8. BIOL 335-Take home exam 9. BIOL 338-Session A exam 10. BIOL 338-Final exam 11. BIOL 341-Laborary journal 12. BIOL 342-Group investigation lab report	1. Fall semester 2. Fall semester 3. Spring semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Spring semester 8. Spring semester 9. Fall semester 10. Fall semester 11. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May

	13. BIOL 343-Group investigation lab report 14. BIOL 437-Exam 1 15. BIOL 437-Exam 2 16. BIOL 437-Exam 3 17. BIOL 496-Literature review paper	12. Fall odd years 13. Fall even semester 14. Spring semester 15. Spring semester 16. Spring semester 17. Fall semester		
4. Demonstrate proficiency in laboratory and field techniques	1. BIOL 200-Laboratory I-forms 2. BIOL 201-Laboratory reports 3. BIOL 202-Laboratory notebook 4. BIOL 335-Microbiology unknown lab project 5. BIOL 338-Laboratory notebook 6. BIOL 342-Laboratory notebook 7. BIOL 343-Laboratory notebook	1. Fall semester 2. Spring semester 3. Fall semester 4. Spring semester 5. Fall semester 6. Fall odd years 7. Fall even years	Mastery as indicated by score of 70% or higher	Annually in May
5. Demonstrate ability to know, analyze, and synthesize scientific principles	1. BIOL 200-Laboratory exam 2. BIOL 200-Scientific journal analysis 3. BIOL 202-Children's book 4. BIOL 202-Photosynthesis unit paper 5. BIOL 202-Annotated bibliography 6. BIOL 202-Laboratory exam 7. BIOL 311-Scientific journal/case study analysis 8. BIOL 312-Scientific journal/case study analysis 9. BIOL 335-Disease team presentation 10. BIOL 335-Exam 1 11. BIOL 335-Exam 2 12. BIOL 335-Exam 3 13. BIOL 338-Session A exam 14. BIOL 338-Finla exam 15. BIOL 338-Team paper presentation 16. BIOL 342-Final exam 17. BIOL 343-Final exam 18. BIOL 437-Exam 1 19. BIOL 437-Exam 2 20. BIOL 437-Exam 3	1. Fall semester 2. Fall semester 3. Fall semester 4. Fall semester 5. Fall semester 6. Fall semester 7. Fall semester 8. Spring semester 9. Spring semester 10. Spring semester 11. Spring semester 12. Spring semester 13. Fall semester 14. Fall semester 15. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

		16. Fall odd years 17. Fall even years 18. Spring semester 19. Spring semester 20. Spring semester		

Biology Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Biology program, students will be able to:

1. Develop understanding of function/structure/classification of life
2. Effectively communicate principles of biology through oral means
3. Effectively communicate principles of biology through written means
4. Demonstrate proficiency in laboratory and field techniques
5. Demonstrate ability to know, analyze, and synthesize scientific principles

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Assessment Plan

Program: Chemistry

Date: 2019-2020

*Program Learning Outcomes (PLOs) listed below chart

Assessment		*Outcomes: What is evaluated*	*When administered*	*Criteria*	*Schedule for Review*
CHEM 112	Oral Presentation on Battery Lab	Explain the principles of chemistry through oral means	Every Spring	Mastery as indicated by score of 70% or higher	Annually in May
CHEM 378	Oral presentations of current literature		Every Spring		
CHEM 431	Paper presentation from scientific literature		Every other Fall		
CHEM 432	Paper presentation from scientific literature		Every other Spring		
CHEM 435	Oral presentations of current literature		As needed		
CHEM 496	Oral presentations of current literature		As needed		
CHEM 496	Oral Presentation on literature review		As needed		
CHEM 272	Formal Lab Report	Explain the principles of chemistry through written means	Every Spring	Mastery as indicated by score of 70% or higher	Annually in May
CHEM 332	Poster on Final Project		Every other year		
CHEM 378	Written presentations of current literature		Every Spring		
CHEM 496	Written presentations of current literature		As needed		
CHEM 375	Literature: Identifying Key Concepts in Introduction		Every Spring		
CHEM 375	Literature: Team Concept Mapping Introduction		Every Spring		
CHEM 375	Amino Acid Quiz		Every Spring		
CHEM 375	Nucleic Acid Quiz		Every Spring		
CHEM 375	Glucose/Phosphatidycholine Quiz		Every Spring		
CHEM 375	Glycolysis Quiz		Every Spring		
CHEM 375	Citric Acid Cycle Quiz		Every Spring		
CHEM 375	Final Exam Paper Analysis		Every Spring		
CHEM 375	Literature: Future Experiment Analysis		Every Spring		
CHEM 375	Literature: Experimental Analysis		Every Spring		
CHEM 375	Literature: Methods Analysis		Every Spring		
CHEM 375	Final Synthetic Biology Presentation		Every Spring		
CHEM 375	Final Paper Presentation		Every Spring		
CHEM 112	Laboratory report assignment	Demonstrate proficiency in laboratory techniques and instrumentation	Every Fall	Mastery as indicated by score of 70% or higher	Annually in May
CHEM 271	Laboratory report assignment		Every Fall		
CHEM 272	Laboratory report assignment		Every Spring		

CHEM 331 CHEM 332 CHEM 332 CHEM 431 CHEM 432	Acid/Base titration report HPLC Laboratory report UV-vis Laboratory report Iodine Clock Laboratory Report HCL/DCL laboratory report (FTIR)		Every other Fall Every other Spring Every other Spring Every other Fall Every other Spring		
CHEM 271 CHEM 272 CHEM 378 CHEM 331 CHEM 332 CHEM 431 CHEM 432	Laboratory notebook assignment Laboratory notebook assignment Laboratory notebook assignment Laboratory notebook assignment Laboratory notebook assignment Laboratory notebook assignment Laboratory notebook assignment	Demonstrate ability to document scientific experiments	Every Fall Every Spring Every Spring Every other Fall Every other Spring Every other Fall Every other Spring	Mastery as indicated by score of 70% or higher	Annually in May
CHEM 112 CHEM 378 CHEM 331 CHEM 332	Design, build, and test a battery Design Experiment Design Experiment Design Experiment	Design experiments using the scientific method	Every Spring Every Spring Every other Fall Every other Spring	Mastery as indicated by score of 70% or higher	Annually in May

Program Learning Outcomes

Program: Chemistry

Date: 2019-2020

Upon completion of the Chemistry program, students will be able to:

1. Explain the principles of chemistry through oral communication.
2. Explain the principles of chemistry through written communication.
3. Demonstrate proficiency in laboratory recording through lab notebooks.
4. Demonstrate proficiency in the use of chemical instrumentation
5. Design experiments using the scientific method

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Assessment Plan

Program: Computer Science (CPSC)

Date: May, 2020

*Program Learning Outcomes (PLOs) listed below chart

Assessment	*Outcomes: What is evaluated*	*When administered*	*Criteria*	*Schedule for Review*
MATH 212 test covering algorithms	From PLO 1 (below): (Analysis) 1. Given a problem, develop an algorithm to solve it. 2. Analyze algorithms to determine the most optimal one. 3. Specify a developed algorithm (design) in pseudocode.	Spring of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 142 programming assignment	From PLO 1 (below): (Implementation) 1. Given a problem, develop an algorithm to solve it. 2. Successfully implement (code) the algorithm in a higher order language. 3. Demonstrate proper software engineering techniques and proper use of appropriate data	Each spring	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May

	structures when developing code.			
CPSC 211 lab incorporating algorithm analysis	From PLO 1 (below): (Development, Implementation, and Analysis) 1. Given a problem, develop an algorithm to solve it. 2. Successfully implement (code) the algorithm in a higher order language. 3. Analyze algorithms to determine the most optimal one. 4. Specify a developed algorithm (design) in pseudocode. 5. Demonstrate proper software engineering techniques and proper use of appropriate data structures when developing code.	Each spring	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 493 project grades	From PLO 1 (below): (Capstone) 1. Given a problem, develop an algorithm to solve it. 2. Successfully implement (code) the algorithm in a higher order language. From PLO 4 (below): 1. Effectively communicate in writing the results of research on a technical subject.	Each spring	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May

CPSC 215 programming assignment	From PLO 2 (below): (Practical Application) 1. Gain an understanding of the basic components of a general Von Neumann machine.	Spring of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 225 homework assignments	From PLO 2 (below): (Practical Knowledge) 1. Gain an understanding of the underlying concepts of conceptual machines (e.g., finite state automata and Turing machines). 2. Gain an understanding of the basic components of a general Von Neumann machine. 3. Gain an understanding of peripherals comprising a computer system (includes storage techniques). 4. Understand circuit design and how circuitry is used to implement computer system components. From PLO 3 (below): 1. Gain an understanding of the interrelationship of system software with hardware and system components.	Spring of even years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 231 quiz covering auxiliary storage devices	From PLO 2 (below): (Storage Device Knowledge) 1. Gain an understanding of peripherals comprising a computer system	Fall of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May

	(includes storage techniques).			
CPSC 225 quizzes	From PLO 2 (below): (Computer Component Knowledge) 1. Gain an understanding of the underlying concepts of conceptual machines (e.g., finite state automata and Turing machines). 2. Gain an understanding of the basic components of a general Von Neumann machine. 3. Gain an understanding of peripherals comprising a computer system (includes storage techniques). 4. Understand circuit design and how circuitry is used to implement computer system components. From PLO 3 (below): 1. Gain an understanding of the interrelationship of system software with hardware and system components.	Spring of even years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 441 homework assignments	From PLO 3 (below): (Database Software) 1. Gain an understanding of database models, design, and implementation.	Fall of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 415 homework assignments	From PLO 3 (below): (Operating System Software)	Fall of even years	Using 4 point scale rubrics, 3 or above is considered	Annually in May

	1. Gain an understanding of the interrelationship of system software with hardware and system components. 2. Gain an understanding of operating system concepts and implementations.		proficient (equates to 80% or above)	
CPSC 231 team project	From PLO 4 (below): (Peer Collaboration) 1. Effectively demonstrate peer collaboration skills.	Fall of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 441 research paper	From PLO 4 (below): (DB Research Written Communication) 1. Demonstrate effective writing skills for both technical and non-technical information. 2. Effectively communicate in writing the results of research on a technical subject.	Fall of odd years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 415 oral report/presentation	From PLO 4 (below): (OS Research Oral Communication) 1. Demonstrate effective oral communication skills.	Fall of even years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May
CPSC 415 research paper	From PLO 4 (below): (OS Research Written Communication) 1. Demonstrate effective writing skills for both technical and non-technical information. 2. Effectively communicate in writing the results of	Fall of even years	Using 4 point scale rubrics, 3 or above is considered proficient (equates to 80% or above)	Annually in May

	research on a technical subject.			

Program Learning Outcomes (PLOs)

Program: Computer Science (CPSC)

Date: May, 2020

Upon completion of the program, students will be able to:

1. Develop an optimal algorithm to solve a problem (Algorithm Development & Implementation).
2. Understand the underlying concepts and characteristics of real and conceptual machines (Computer Architecture & System Hardware).
3. Understand the software comprising a computer system (System Software).
4. Effectively communicate technical information both orally and in writing (Communication Skills).

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Assessment Plan

Program: Healthcare/Nursing

Date: 5/1/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
1. Develop understanding of function/structure/classification of human beings and their pathogens	1. BIOL 211 - Laboratory midterm exam 2. BIOL 211 - Laboratory final exam 3. BIOL 211 - Laboratory review sheets 4. BIOL 211 - Medical terminology quizzes 5. BIOL 212 - Laboratory midterm exam 6. BIOL 212 - Laboratory final exam 7. BIOL 212 - Laboratory review sheets 8. BIOL 360 - Case study 7	1. Fall semester 2. Fall semester 3. Fall semester 4. Fall semester 5. Spring semester 6. Spring semester 7. Spring semester 8. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
2. Effectively communicate principles of biology through oral means	1. BIOL 211 - Oral class participation 2. BIOL 235 - In-office oral exam 3. BIOL 235 - Vaccine team presentation 4. BIOL 235 - Disease team presentation	1. Fall semester 2. Spring semester 3. Spring semester 4. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Effectively communicate principles of biology through written means	1. BIOL 211 - Critical thinking assignment 2. BIOL 212 - Critical thinking assignment 3. BIOL 360 - Case study 7	1. Fall semester 2. Spring semester 3. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

4. Demonstrate proficiency in laboratory techniques	1. BIOL 235 - Unknown lab project 2. CHEM 110 - Laboratory final grade	1. Spring semester 2. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
5. Demonstrate ability to know, analyze, and synthesize scientific principles	1. BIOL 211 - Critical thinking assignment 2. BIOL 212 - Critical thinking assignment 3. BIOL 235 - In-office exam 4. BIOL 235 - Vaccine team presentation 5. BIOL 235 - Disease team presentation 6. BIOL 360 - Case study 4 7. CHEM 110 - Lecture final exam	1. Fall semester 2. Spring semester 3. Spring semester 4. Spring semester 5. Spring semester 6. Fall semester 7. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

Healthcare/Nursing Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Healthcare/Nursing program, students will be able to:

1. Develop understanding of function/structure/classification of human beings and their pathogens
2. Effectively communicate principles of biology through oral means
3. Effectively communicate principles of biology through written means
4. Demonstrate proficiency in laboratory techniques
5. Demonstrate ability to know, analyze, and synthesize scientific principles

Assessment Plan

Program: Mathematics

Date: 5/1/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
1. Develop problem solving skills	1. Math 231 – Related rates assessment (quiz or exam) 2. Math 232 – Solids of revolution assessment (quiz or exam) 3. Math 232 – Integration techniques (quiz or exam)	1. Fall semester 2. Spring semester 3. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May
2. Improve proof techniques	1. Math 212 – proofs based midterm 2. Math 334 – take home exam	1. Spring semester 2. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Improve technological skills	1. Math 210 – Hypothesis testing assignment 2. Math 210 – SPSS assignments	1. Fall and spring semesters	Mastery as indicated by score of 70% or higher	Annually in May
4. Model real life phenomena	1. Math 210 – linear regression assignment 2. Math 210 – summary statistics quiz 3. Math 233 – mass and volumes of revolutions quiz	1. Fall and spring semesters 2. Fall and spring semesters 3. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

Mathematics Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Mathematics program, students will be able to:

1. Develop problem solving skills
2. Improve proof techniques
3. Improve technological skills
4. Model real-life phenomena

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Assessment Plan

Program: Mathematics Education

Date: 5/1/2020

Outcomes	*Assessment*	*Date Administered*	*Criteria*	*Schedule for Review*
1. Develop problem solving skills	1. Math 231 – Related rates assessment (quiz or exam) 2. Math 232 – Solids of revolution assessment (quiz or exam) 3. Math 232 – Integration techniques (quiz or exam)	1. Fall semester 2. Spring semester 3. Spring semester	Mastery as indicated by score of 70% or higher	Annually in May
2. Improve proof techniques	1. Math 212 – proofs based midterm 2. Math 334 – take home exam	1. Spring semester 2. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May
3. Improve technological skills	1. Math 210 – Hypothesis testing assignment 2. Math 210 – SPSS assignments	1. Fall and spring semesters	Mastery as indicated by score of 70% or higher	Annually in May
4. Model real life phenomena	1. Math 210 – linear regression assignment 2. Math 210 – summary statistics quiz 3. Math 233 – mass and volumes of revolutions quiz	1. Fall and spring semesters 2. Fall and spring semesters 3. Fall semester	Mastery as indicated by score of 70% or higher	Annually in May

Mathematics Education Program Learning Outcomes

Date: 5/1/2020

Upon completion of the Healthcare/Nursing program, students will be able to:

1. Develop problem solving skills
2. Improve proof techniques
3. Improve technological skills
4. Model real-life phenomena