**Amarillo College Curriculum Map Template**

**Division:** STEM **Degree/Academic Program(s):** Pre-Physician Assistant (PAST.AS) **Person Responsible for Division:** Dan Ferguson, Dean **Component Director/Chair:** Claudie Biggers **Submission Date:** December 2, 2015 **Purpose Statement:** The mission of the Pre-Physcian Assistant PAST A.S. degree is to provide students with the first two years of the curriculum leading to a Master’s degree level of education. To foster student understanding of biological concepts and promote an appreciation of scientific inquiry that is relevant to providing optimum healthcare within our community.

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| **Goal #1: To graduate students with the ability to apply critical thinking and scientific problem-solving skills in the classroom. Outcomes including but not limited to, inquiring, synthesizing and summarizing, to make decisions, recommendations and predictions.** | | | | |
| **Program-Specific Courses** | **Course Name** | **PLO #1:**  **Use critical thinking and scientific problem-solving to make informed decisions in laboratory.** | **PLO #2:**  **Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.** | **PLO #3:**  **Student will communicate effectively the results of scientific investigations.** |
| **SCIT 1307** | **Pre AP** | **I** | **I** | **I** |
| **BIOL 2416** | **Genetics** | **ID** | **ID** | **ID** |
| **BIOL 2421** | **Microbiology M** | **ID** | **ID** | **ID** |
| **BIOL 2401** | **AP 1** | **ID** | **ID** | **ID** |
| **BIOL 2402** | **AP 2** | **ID** | **M** | **M** |

**I = Introduced; D = Developed & Practiced with Feedback; M = Demonstrated at Mastery**

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| **Goal #2: To graduate students who can demonstrate their knowledge of the steps involved in scientific method. Outcomes including communicate results of scientific investigations, analyze data and formulate conclusions.** | | | | |
| **Program-Specific Courses** | **Course Name** | **PLO #1:**  **Demonstrate the steps involved in the scientific method.** | **PLO #2:**  **Communicate results of scientific investigations, analyze data and formulate conclusions.** | **PLO #3:**  **Explain the methods of inquiry used by scientists.** |
| **SCIT 1307** | **Pre AP** | **I** | **I** | **I** |
| **BIOL 2416** | **Genetics** | **D** | **D** | **D** |
| **BIOL 2421** | **Microbiology M** | **M** | **M** | **M** |
| **BIOL 2401** | **AP 1** | **ID** | **ID** | **I** |
| **BIOL 2402** | **AP 2** | **D** | **D** | **I** |

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| **Goal #3: Graduates will have the skills to analyze and assimilate all course materials in order to arrive at objective conclusions.**  **Objective is for students to demonstrate mastery of 70% of our objectives outlined in the ACGM.** | | | | |
| **Program-Specific Courses** | **Course Name** | **PLO #1:**  **Demonstrate understanding of core biological concepts.** | **PLO #2:**  **Communicate results of scientific investigations, analyze data and formulate conclusions.** | **PLO #3:**  **Use critical thinking and scientific problem-solving to make informed decisions within their professional careers.** |
| **SCIT 1307** | **Pre AP** | **I** | **I** | **I** |
| **BIOL 2416** | **Genetics** | **ID** | **ID** | **ID** |
| **BIOL 2421** | **Microbiology M** | **D** | **D** | **D** |
| **BIOL 2401** | **AP 1** | **ID** | **ID** | **ID** |
| **BIOL 2402** | **AP 2** | **D** | **M** | **M** |

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| **Program-Specific Courses** | **Course Name** |
| **SCIT 1307** | **Pre AP** |
| **BIOL 2374** | **Integrated Biol** |
| **BIOL 1411** | **Gen Botany** |
| **BIOL 1413** | **Gen Zoology** |
| **BIOL 2306** | **Environmental** |
| **BIOL 1408** | **Life Science 1** |
| **BIOL 1409** | **Life Science 2** |
| **BIOL 2416** | **Genetics** |
| **BIOL 2420** | **Microbiology** |
| **BIOL 2421** | **Microbiology M** |
| **BIOL 1406** | **Biology 1 Maj** |
| **BIOL 1407** | **Biology 2 Maj** |
| **BIOL 2401** | **AP 1** |
| **BIOL 2402** | **AP 2** |