Cluster: Health Science

CIP: 51.0000 - Health Services/Allied Health/Health Sciences, General.

Status: Open
Start Year: 2011
End Year:

Minimum Carnegie Units: 2.00

Group 2
Minimum Course Selection: School: 1   ACC: 1   Regional: 1

<table>
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<tr>
<th>State Course ID</th>
<th>State Course Title</th>
<th>Max Carnegie Units</th>
<th>Start SY</th>
<th>End SY</th>
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<tbody>
<tr>
<td>14252A001</td>
<td>Biomedical Sciences (PLTW)</td>
<td>3.00</td>
<td>2011</td>
<td></td>
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<tr>
<td>14251A001</td>
<td>Human Body System (PLTW)</td>
<td>3.00</td>
<td>2011</td>
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Group 3
Minimum Course Selection: School: 0   ACC: 0   Regional: 0

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<tr>
<td>14254A001</td>
<td>Medical Interventions (PLTW)</td>
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<td>14299A001</td>
<td>Biomedical Capstone (PLTW)</td>
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Course Descriptions

CIP: 51.0000 - Health Services/Allied Health/Health Sciences, General.

**State Course ID:** 14252A001  **Course Title:** Biomedical Sciences (PLTW)
Biomedical courses introduce students to the broad field of biomedical science. It provides the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body system and various health conditions including: heart disease, diabetes, sickle cell disease, hypercholesterolemia, and infectious diseases.

**State Course ID:** 14251A001  **Course Title:** Human Body System (PLTW)
Human body Systems courses provide the study of basic human physiology, especially in relationship to human health. A central theme is how the body systems work together to maintain internal balance and good health. Students use data acquisition software to monitor body functions and study body structure.

**State Course ID:** 14254A001  **Course Title:** Medical Interventions (PLTW)
Medical Intervention courses provide student projects that investigate various medical interventions that extend and improve the quality of life including; diagnostics, surgery, bio-nanotechnology, pharmacology, prosthetics, rehabilitation, and life style choices. Possible topics include stem cell research, cochlear implants, insulin pumps, joint and organ replacements, heart pacers, and internal defibrillators.

**State Course ID:** 14299A001  **Course Title:** Biomedical Capstone (PLTW)
Biomedical Capstone course provides the ability to design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. Students apply knowledge and skills to answer questions or to solve problems related to biomedical sciences. Students may work with a mentor or have an advisor from a university, hospital, physician’s office, or industry as they complete their work. Students will be expected to make a presentation of their work to an adult audience that may include representatives from the local community or the school’s PLTW partnership team.