The Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV) calls for states to offer “career and technical programs of study,” known as Big Sky Pathways in Montana, as an option to students and their parents when planning for and completing future coursework. These programs, at a minimum, must:

- Incorporate and align secondary and postsecondary education elements,
- Include academic and CTE content in a coordinated, non-duplicative progression of courses,
- Offer the opportunity, where appropriate, for secondary students to acquire postsecondary credits, and
- Lead to an industry-recognized credential or certificate at the postsecondary level, or an associate or baccalaureate degree.

**Assurances**

By my signature at the bottom of this form, I assure that the Big Sky Pathway submitted for approval by this high school meets all of the following criteria.

| 1. Includes all state and local graduation requirements | ✔ |
| 2. Identifies the appropriate secondary CTE, academic, and recommended elective courses offered by this high school which will prepare the student for college-level courses without remediation | ✔ |
| 3. Outlines a non-duplicative sequence of courses from grades 9-12 and from secondary to postsecondary education | ✔ |
| 4. Prepares students for entry into a postsecondary program or apprenticeship | ✔ |
| 5. Leads to an industry-recognized credential, degree or employment | ✔ |
| 6. Includes appropriate state standards and/or industry skills standards | ✔ |
| 7. Aligns with a program offered by a Montana two-year community college or college of technology | ✔ |
| 8. Links with a web-based guidance delivery system such as MCIS | ✔ |
| 9. When applicable, dual enrollment opportunities have been identified. This includes dual credit courses, and college-credit only courses offered at the high school, at the college, or online | ✔ |
| 10. When applicable, Advanced Placement courses and CTE statewide articulations have been identified | ✔ |

**Montana Tech Standards**

| Identify standards: |
| ✔ |

**Identify college:**

| MSU-Northern |
| ✔ |
| Identify program: |
| AAS Drafting Tech |

**If using something other than MCIS, please indicate:**

| MCIS |
| ✔ |

**Identify course(s):**

| ✔ |

Please submit this Request for Approval and a copy of the Big Sky Pathway to:

OPD, Career and Technical Education, P.O. Box 202501, Helena, Montana 59620-2501

Date of Approval: 03-2-2011

Both the college and the high school will receive a signed copy when the RFA is approved.
HIGH SCHOOL: Saco Jr/Sr High School

COLLEGE: MSU - Northern

COLLEGE DEGREE PROGRAM: Assoc.Applied Science in Drafting Tech

Cluster Overview:
Careers in the Architecture and Construction cluster involve the designing, planning, managing, building, and maintaining the built environment.

Pathway Options:
- Design/Pre-Construction
- Construction
- Maintenance/Operations

Occupation Examples:
Architect; Carpenter; Civil Engineer; Construction Foreman/Manager; Contractor; Demolition Engineer; Drafter; Drywall Installer; Electrician; Electronic Systems Technician; Equipment/Material Manager; General Contractor/Building; Heating, Ventilation, Air Conditioning and Refrigeration Mechanic; Interior Designer; Painter; Paperhanger; Plumber; Project Estimator; Project Inspector; Roofer; Safety Director; Sheet Metal Worker; Tile and Marble Setter

For a complete listing, go to:
http://online.onetcenter.org/find/career?c=2&q=Go

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SUGGESTED HIGH SCHOOL COURSES

<table>
<thead>
<tr>
<th>Year</th>
<th>Graduation Requirements</th>
<th>Workforce/2-Year College Prep</th>
<th>CTE and/or Electives</th>
<th>Cluster Foundation Courses</th>
<th>Cluster or Pathway Courses</th>
<th>Pathway Courses</th>
<th>Recommended CTE Cluster Foundation Courses</th>
<th>Recommended Pathway Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>4-Year MT College/Univ Prep</td>
<td>English 9, Health/PE 9, Algebra I, Earth Science, General Business and 2 credits from Foundation Courses and/or other electives</td>
<td>CTE and/or Electives</td>
<td>Cluster Foundation Courses</td>
<td>English 10, Health/PE 10, Geometry, World History, Biology and 2 credits from Foundation/Pathway Courses and/or other electives</td>
<td>CTE Student Organization(s):</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>10th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>4-Year MT College/Univ Prep</td>
<td>English 11, Algebra II, US History and 4 credits from Pathway Courses and/or other electives</td>
<td>Advanced Wood Tech</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>4-Year MT College/Univ Prep</td>
<td>English 12, Government and 5 credits from Pathway Courses and/or other electives</td>
<td>Advanced Welding Tech</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>4-Year MT College/Univ Prep</td>
<td>English 12, Government, Physics, Intro Cal, and 3 credits from Pathway Courses and/or other electives</td>
<td>Advanced Word processing</td>
<td>0</td>
<td></td>
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</tbody>
</table>

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ADVANCED LEARNING OPPORTUNITIES
High School to College/Career Linkages

CTE START courses:
Advanced Placement or IB courses:
Dual Enrollment courses:
Online courses: Montana Digital Academy - MDA
Other:

POSTSECONDARY PROGRAM OF STUDY

<table>
<thead>
<tr>
<th>Year</th>
<th>Math</th>
<th>English</th>
<th>Major</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-Semester 2</td>
<td>Trigonometry</td>
<td>Descriptive Geometry 3D CAD Intro to Comp/MS Office</td>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td>14-Semester 1</td>
<td></td>
<td>Management &amp; Mat'l's Residential Drafting Engineering Mechanics College Physics I</td>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>14-Semester 2</td>
<td></td>
<td>Machine Drafting Topographic Drafting/GIS MS ACCESS Surveying</td>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

February 2, 2014
### MONTANA POSTSECONDARY OPPORTUNITIES

**Montana University System Degree and Program Inventory:** [http://www.homepage.montana.edu/~mus/drginv/](http://www.homepage.montana.edu/~mus/drginv/)

**Your Guide to Montana's Certificate and Associate Degree Programs:** [http://mus.edu/twoyear/YourGuide.html](http://mus.edu/twoyear/YourGuide.html)

<table>
<thead>
<tr>
<th>Colleges of Technology:</th>
<th>Community Colleges:</th>
<th>Tribal Colleges:</th>
<th>Four Year Colleges/Universities:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLCOT—Billings; GFCOT—Great Falls; HCOT—Helena; TECHCOT—Butte; UMCOT—Missoula; GCP—Bozeman</td>
<td>DCC—Glendive; FVCC—Kalispell; MCC—Missoula City</td>
<td>BFCC—Browning; CDKC—Lame Deer; FBCC—Harlem; FPCC—Poplar; LBHC—Crow Agency; SCC—Box Elder; SKC—Pablo</td>
<td>MSU—Bozeman; MSUB—Billings; MSUN—Helena; TECH—Butte; UM—Missoula; UM—Dillon</td>
</tr>
</tbody>
</table>

**MILITARY**
- Requires diploma or GED
- 17 with parental consent; 18 without

Air Force, Air Guard, Army, Coast Guard, Marines, and Navy
For more information: [http://todaysmilitary.com](http://todaysmilitary.com)

**PROFESSIONAL CERTIFICATE**
- Requires diploma or GED
- Less than 30 credits; little/no general ed credits
- Complete in one year or less

Cabinet & Furniture Technology — FVCC
Line Professional/Utility Line Worker — TECHCOT

**APPRENTICESHIP**
- Requires diploma or GED
- Must be at least 18
- Minimum 2,000 hours of supervised experience

Bricklayers, Building Maintenance Workers, Carpenters, Cement Masons, Electricians, Glaziers, Plumbers, Pipefitters, Roofers, Sheet Metal Workers, Tile Setters
See the MT Dept of Labor website for more information: [http://wvd.dil.mt.gov/apprenticeship/default.asp](http://wvdi.dil.mt.gov/apprenticeship/default.asp)

**CERTIFICATE OF APPLIED SCIENCE**
- Requires diploma or GED
- 30-45 credits; limited general education credits
- Complete in one year or less

Building Maintenance — UMCOT
Building Technology & Trades — FVCC, MCC, FPCC, BFCC
Carpentry — HCOT, UMCOT, TECH COT, GFCOT, MSUN, FBCOL
Construction Technology — SCC
Heating, Ventilation, Air Conditioning — FVCC
Line Professional/Utility Line Worker — FPCC
Plumbing Technology — FVCC

**ASSOCIATE'S OF APPLIED SCIENCE DEGREE**
- Requires diploma or GED
- 60-72 credits; includes 15-25 general ed credits
- Complete in two years **(if prepared academically in math and English)**

Building Technology & Trades — FVCC, MCC, FPCC
Carpentry — UMCOT, BLCOT, TECH COT, MSUN, FPCC
Construction Technology — HCOT, BFCC
Plumbing Technology — MSUN

**BACCALAUREATE DEGREE**
- Requires 4-year college prep for admission
- 128 credits (approximately)
- Complete in four years

Civil Engineering — TECH
Construction Engineering Technology — MSU
Environmental Design/Architecture — MSU

*Degree and Program Inventory above may not be all inclusive*