Montana Big Sky Pathways (Programs of Study)
Agreement Valid for 2012-2013 Academic Year

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.

By my signature on this form, I verify each of the eight (8) requirements listed below are demonstrated within the Big Sky Pathways Proposal and Gap Analysis. For approval, all eight (8) requirements must be checked.

Name of Big Sky Pathway (Cluster Level): Architecture and Construction

Name of High School: Valier High School

Names of High School Lead Teacher & Counselor: Mr. Kent Sheble, Mrs. Roni Habel

The Lead High School Teacher will be contacted if OPI has questions about this request.

Lead Teacher's email address: sheblek@valier.k12 mt.us
Lead Teacher's phone number: (406) 279-3613

Name of College: MSU Great Falls COT

Name of College Program: Carpentry

Name of College Lead Faculty Member: Patrick Schlenker

REQUIREMENTS FOR APPROVAL

1. Includes all state and local graduation requirements preparing students for entry into a postsecondary program or apprenticeship.
   ✔

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. Leads to an industry-recognized postsecondary credential, degree or employment.
   ✔

5. Completed "Gap Analysis" with a program offered by a Montana postsecondary institution.
   ✔

6. When applicable, dual enrollment, Advanced Placement, International Baccalaureate courses and CTE START (Statewide Articulations) opportunities have been identified.
   ✔

7. Pathway curriculum includes appropriate state/national standards and/or industry skills standards. Identify standards used: MT Standards / GTCC
   ✔

8. Links with a web-based guidance delivery system such as Montana Career Information System (MCIS). If using something other than MCIS, please indicate:
   ✔

High School Principal's Signature: [Signature] Date: 12/1/11
High School CTE Teacher's Signature: [Signature] Date: 12/1/11
High School Counselor's Signature: [Signature] Date: 12/1/11

Please submit this Approval Form with the Big Sky Pathway Proposal to the Big Sky Pathway Coordinator at the College identified above.

College Chief Academic Officer's Signature: [Signature] Date: 12/8/11
College Lead Faculty Member's Signature: [Signature] Date: 12/8/11

Please submit this Approval Form with the Big Sky Pathway Proposal to OPI, Career and Technical Education, P. O. Box 202501, Helena, MT 59620-2501.

OPI Approval: [Signature] Date of Approval: 12-12-2011
OCHQ Approval: [Signature] Date of Approval:
### Suggested High School Courses

<table>
<thead>
<tr>
<th>Grade</th>
<th>Subject Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>English, Algebra, Science, P.E., World History, 1 yr CTE, 1 yr Fine Arts</td>
</tr>
<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
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<tr>
<td></td>
<td>CTE and/or Electives</td>
</tr>
<tr>
<td></td>
<td>English, Algebra, Animal Human Biology, Spanish I, P.E., World History, 1 yr CTE, 1 yr Fine Arts</td>
</tr>
<tr>
<td>10th</td>
<td>English, Geometry, Science, P.E.</td>
</tr>
<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
</tr>
<tr>
<td></td>
<td>CTE and/or Electives</td>
</tr>
<tr>
<td></td>
<td>English, Geometry, Micro/Plant Biology, Chemistry, Spanish II</td>
</tr>
<tr>
<td>11th</td>
<td>Graduation Requirements</td>
</tr>
<tr>
<td></td>
<td>Workforce/2-Year College Prep</td>
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<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
</tr>
<tr>
<td></td>
<td>CTE and/or Electives</td>
</tr>
<tr>
<td></td>
<td>Woods I, 1 yr CTE, CAD, Career Development</td>
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<tr>
<td>12th</td>
<td>Graduation Requirements</td>
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<tr>
<td></td>
<td>Workforce/2-Year College Prep</td>
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<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
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<tr>
<td></td>
<td>CTE and/or Electives</td>
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<tr>
<td></td>
<td>Woods II</td>
</tr>
<tr>
<td></td>
<td>English, US History, Algebra II (3rd year of Math)</td>
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<tr>
<td></td>
<td>English, US History, Algebra II, Advanced Math, AP Biology</td>
</tr>
<tr>
<td></td>
<td>English, Government, Calculus, Physics, Advanced Chemistry, AP English</td>
</tr>
<tr>
<td></td>
<td>CTE and/or Electives</td>
</tr>
</tbody>
</table>

### Advanced Learning Opportunities

- **CTE START courses:**
- Advanced Placement or IB courses:
- AP Biology & AP English and Composition
- Dual Enrollment courses:
- CAPP 120 Introduction to Computers, COMM 135 Interpersonal Communication, WRIT 101 College Writing
- Online courses:
- Montana Digital Academy
- Other:

### Postsecondary Program of Study

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Math</th>
<th>English</th>
<th>Major</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>13—Semester 2</td>
<td>Interpersonal Communication Dev. Writing or higher</td>
<td>Intro to Site Layout &amp; Concrete Construction Site Safety</td>
<td>Summer Semester - Summer Carpentry Internship (135-170 hrs)</td>
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<tr>
<td>14—Semester 1</td>
<td></td>
<td>Exterior Finishing, Stair Construction &amp; Metal Stud Framing</td>
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<tr>
<td>14—Semester 2</td>
<td>Advanced Concrete Working</td>
<td>Intro to Business</td>
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</tbody>
</table>

### MONTANA POSTSECONDARY OPPORTUNITIES

- **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://wrard.dil.mt.gov/apprenticeship/default.asp](http://wrard.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, FBCCOL
  - 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*