Big Sky Pathway
Program of Study Team Worksheet

Requirements:
The Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV), calls for states to offer "career and technical programs of study as educational options to students and parents when planning for and completing future coursework. These programs must:

- Incorporate and align secondary and postsecondary education elements and curriculum,
- Include academic and CTE content in a coordinated, non-duplicative progression,
- Offer the opportunity, where appropriate, for secondary students to postsecondary credits, and,
- Must lead to an industry-recognized credential or certificate, or degree.

In addition to the requirements above, Programs of Study in Montana must also meet the following criteria:

- Programs of study must include all state and local high school graduation requirements

Assembling a Team: Designing and implementing a Big Sky Pathway requires collaboration at every level of the process. Based on your local community and the specific Career Pathway for which you wish to implement a Program of Study, you should assemble a team that includes academic and CTE Teachers, District or School CTE Advisors, Business and Industry Representatives, Postsecondary Partners and Faculty, Education Administrators, and even relevant local community leaders or recent program of study graduates.

This team will have several responsibilities in the creation of the Program of Study (POS), which are explained in depth in the Big Sky Pathway Implementation Guide For Montana (p. 47).

After reviewing the Guide, it is a good practice to fill out the information below and identify the roles and responsibilities of the team members:

Career Cluster: Information Technology

Career Pathway/Program of Study: Web Design

High school & College: Hellgate High School & Great Falls College MSU

Date of Meeting: Spring '14 Via Email

Program of Study Team Members:

<table>
<thead>
<tr>
<th>Team Member</th>
<th>Name/Affiliation</th>
<th>Role/Responsibility</th>
<th>Signature/Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: Business &amp; Industry</td>
<td>Rod Howard, Machinists R Us</td>
<td>Ensure the curriculum teaches skills employers need in entry-level workers, Look for ways to incorporate industry recognized certificates into the POS, provide work-based learning experiences for students</td>
<td></td>
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<tr>
<td>College Career Coordinator</td>
<td>Charla Merja</td>
<td>Big Sky Pathways Coordinator</td>
<td></td>
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</tbody>
</table>

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In developing a pathway/program of study, it is also important to determine that the pathway includes the following elements:

### Pathway Checklist

<table>
<thead>
<tr>
<th>Element</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pathway includes all state and local graduation requirements preparing students for entry into a postsecondary program</td>
<td>✓</td>
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</tr>
<tr>
<td>2. Pathway identifies the appropriate secondary CTE, academic, and recommended elective courses offered by the high school which will prepare the student for college-level courses without remediation</td>
<td>✓</td>
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<tr>
<td>3. Pathway outlines a non-duplicative sequence of courses from grades 9-12 and from secondary to postsecondary education</td>
<td>✓</td>
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<tr>
<td>4. Pathway leads to an industry-recognized postsecondary credential, degree or employment</td>
<td>✓</td>
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<tr>
<td>5. Curriculum between secondary and postsecondary institutions has aligned curriculum, using industry recognized standards or with input of local/regional business and industry (May use Gap Analysis)</td>
<td>✓</td>
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<tr>
<td>List National Standards or Local/Regional Business Here: Business Education</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>6. Pathway includes dual enrollment, high school for college credit, and opportunities for industry-recognized credentials and work-based learning experiences when applicable</td>
<td>✓</td>
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</table>
7. The pathway utilizes the guidance of a web-based career counselling system, or information regarding the pathway is available on the institution’s website.
### SUGGESTED HIGH SCHOOL COURSES

<table>
<thead>
<tr>
<th>Grade</th>
<th>Graduation Requirements</th>
<th>Workforce/2-Year College Prep</th>
<th>4-Year MT College/Univ Prep (Rigorous Core)</th>
<th>CTE and/or Electives</th>
<th>Recommended CTE Cluster Foundation Course(s):</th>
<th>Other Recommended CTE Courses:</th>
<th>Occupation Examples:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>English I, Algebra I, Earth Science, Health Enhancement, Intro to Art</td>
<td>Tech Tools, Digital Media</td>
<td>CTE START courses: Advanced Placement or IB courses: Dual Enrollment courses: CAP 120, BGEN 105, COMX 115, ARTZ 101, PHOT 154, GDSN 101, M 108, WRIT 122 Online courses: Other:</td>
<td></td>
<td></td>
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<tr>
<td>10th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>English II, Geometry, Biology, Health Enhancement, Journalism</td>
<td>Graphic Design I, Graphic Design II</td>
<td>Graphic Design I, Graphic Design II</td>
<td>Web Design, Film I or IB Film</td>
<td>Art Director, Artist, Commercial Artist, Commercial Photographer: Digital, Still, Video, Film, Commercial/Residential and Home Furnishing Coordinator, Computer Animator, Curator and Gallery Manager, Fashion Designer, Fashion Illustrator, Graphic Designer, Illustrator, Interior Designer, Textile Designer</td>
</tr>
<tr>
<td>11th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>English III, U.S. History, Algebra II, Lance or Yearbook (or both), Social Studies Elective</td>
<td>Social Studies Elective</td>
<td>Social Studies Elective</td>
<td>Social Studies Elective</td>
<td>Web Design, 3D Modeling &amp; Animation, Film I, Film II, IB Film, Home &amp; Living Environments</td>
</tr>
<tr>
<td>12th</td>
<td>Graduation Requirements</td>
<td>Workforce/2-Year College Prep</td>
<td>English IV, Government, Lance or Yearbook (or both)</td>
<td>Foreign Language</td>
<td>Lance, Yearbook, Film II</td>
<td>Lance, Yearbook, Film II</td>
<td>BPA</td>
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</tbody>
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### ADVANCED LEARNING OPPORTUNITIES

High School to College/Career Linkages

CTE START courses:

Advanced Placement or IB courses:

Dual Enrollment courses: CAP 120, BGEN 105, COMX 115, ARTZ 101, PHOT 154, GDSN 101, M 108, WRIT 122

Online courses:

Other:

### POSTSECONDARY PROGRAM OF STUDY

<table>
<thead>
<tr>
<th>Math</th>
<th>English</th>
<th>Major</th>
<th>Other</th>
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<tbody>
<tr>
<td>13—Semester 1</td>
<td>WRIT 122 - Intro to Business Writing</td>
<td>ARTZ 105 -Visual Language – Drawing GDSN 101 - Design Topics &amp; Principles</td>
<td>COLS 103 Becoming a successful student BGEN 105 – Intro to Business CAPP 120 - Intro to Computers</td>
</tr>
</tbody>
</table>
### 13—Semester 2
- COMX 115 – Interpersonal Communication
- ARTZ 101 – Art Fundamentals
- MART 231 – Interactive Web I
- GDSN 130 - Typography
- BMKT 240 – Advertising

### 14—Semester 1
- M 108 – Business Mathematics
- GDSN 248 – Digital Design
- GDSN 249 – Digital Illustration
- MART 232 – Interactive Web II
- BMKT 225 – Marketing

### 14—Semester 2
- GDSN 200 – Desktop Publishing
- GDSN 221 – Publishing and Pre-Press
- PHOT 154 – Digital Photography
- ITS 299 – Capstone: Internship
- CAPP 158 – MS Access

### Suggested Electives
- MART 233 – Interactive Web III

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### 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>Community Colleges:</th>
<th>Tribal Colleges:</th>
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<tbody>
<tr>
<td>Dawson Community College (DCC)</td>
<td>Aaniih Nakoda College (ANC)</td>
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<tr>
<td>Flathead Valley Community College (FVCC)</td>
<td>Blackfeet Community College (BCC)</td>
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<tr>
<td>Miles Community College (MCC)</td>
<td>Chief Dull Knife College (CDKC)</td>
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<tr>
<td>Montana State University (MSU)</td>
<td>Fort Peck Community College (FPCC)</td>
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<tr>
<td>City College (CC)</td>
<td>Little Big Horn College (LBHC)</td>
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<tr>
<td>Great Falls College (GFC)</td>
<td>Stone Child College (SCC)</td>
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<tr>
<td>Helena College (HC)</td>
<td>Salish Kootenai College (SKC)</td>
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<td>Highlands College (HC-Butte)</td>
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<td>Missoula (MC)</td>
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<td>Missoula College (UM)</td>
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<td>Missoula (UM)</td>
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<td>Bozeman (GC)</td>
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<td>Butte (HC-Butte)</td>
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<td>Billings (CC)</td>
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<td>Great Falls (GFC)</td>
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<tr>
<td>Helena (HC)</td>
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**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
- Communications Equipment Mechanics
- Jewelers
- Web Press Operators
- See the MT Dept of Labor website for more information: [http://wsd.dli.mt.gov/apprenticeship/default.asp](http://wsd.dli.mt.gov/apprenticeship/default.asp)

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

**CERTIFICATE OF APPLIED SCIENCE**
- Requires diploma or GED
- 30-45 credits; limited general education credits
- Complete in one year or less
- 3-D Jewelry Design — FVCC
- Graphic Design — FVCC
- Interior Design/Space Planning — HC

**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)*
- Goldsmithing & Jewelry Arts — FVCC
- Graphic Design — FVCC, GFC, MSUN
- Interior Design — GFC, GC
- Media Design/Information Technology — SKC
- Music Technology — DCC

**BACCALAUREATE DEGREE**
- Requires 4-year college prep for admission
- 128 credits (approximately)
- Complete in four years
- Art — UM, MSU, Billings
- Art/Graphic Design Option — MSU
- Art/Studio Arts Option — MSU
- Film & Photography — MSU
- Music — MSU, UM, UMW, MSUB
- Music Ed — MSU
- Music Technology — MSU
- Media Arts — UM
- Journalism — UM
- Communication Studies — UM
- Radio/TV — UM
- Professional /Technical Communication — MT Tech
- Visual Arts — UMW

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