Request for Approval with Assurances
Montana Big Sky Pathways (Programs of Study)

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 on this form, I assure that the proposed Big Sky Pathway submitted for approval by this high school/college satisfies the 10 stated requirements. For approval, all 10 requirements must be checked.

Name of Big Sky Pathway (cluster level): Ag Food & Natural Resources
Name of High School: Hysham Public Schools
Names of Secondary Lead Teacher and Counselor: J. S. Kolar (Ag), S. Hollewell (Counselor)
The Lead Secondary Teacher will be contacted if OPI has questions about this request
Lead Teacher’s email address: Korea@me.com
Lead Teacher’s phone number: 406-844-5227
Name of College: Dawson Community College
Name of College Program: Ag Business
Name of College Lead Faculty Member: LeAnn Hargland

Requirements for Approval

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 postsecondary credential, degree or employment
6. Includes appropriate state standards and/or industry skills standards. Identify standards used:
   National & State Agriculture Content Standards
7. Aligns with an AAS program offered by a Montana college (college of technology, community college, tribal college, MTU-Northern)
8. Links with a web-based guidance delivery system such as MCIS
   If using something other than MCIS, please indicate:
9. When applicable, dual enrollment opportunities have been identified.
   N/A
10. When applicable, Advanced Placement, IB courses and CTE START (statewide articulations) have been identified.
    N/A

High School Principal’s Signature: Date: 9-28-2011
H.S. Advisory Committee Member’s Signature: Date: 9-28-2011
College Chief Academic Officer’s Signature: Date: 9-28-2011
College Lead Faculty Member’s Signature: Date: 9-28-2011

Please submit this Request for Approval form and a copy of the Big Sky Pathway Proposal to:
OPI, Career and Technical Education, P.O. Box 202501, Helena, Montana 59620-2501
OPI Specialist Approval: Date of Approval: 2-28-2013
OCHE Approval: Date of Approval: 2-28-2013

Both the college and the high school will receive a signed copy when the BSP is approved

January 2011
HIGH SCHOOL: Hysum Public Schools
COLLEGE: Dawson Community College

COLLEGE DEGREE PROGRAM: Ag Businesses DCC

Pathway Options:
- Food Products and Processing Systems
- Plant Systems
- Animal Systems
- Power, Structural & Technical Systems
- Natural Resources Systems
- Environmental Service Systems
- Agribusiness Systems

Occupation Examples:
- Agricultural Chemical Dealer
- Aquaculturist
- Environmental Compliance Assurance Manager
- Farm Manager
- Health and Safety Sanitarian
- Meat Cutter-Grade
- Park Manager
- Produce Buyer
- Recycling Technician
- Wildlife Manager
- Botanist
- Agricultural Educator
- Ecologist
- Environmental Engineer
- Fish and Game Officer
- Bank Loan Officer
- Plant Pathologist
- Veterinarian

For a complete listing, go to:
http://jobcenter.ontario.ca/finda/career?c=1&g=60

SUGGESTED HIGH SCHOOL COURSES

9th
Graduation Requirements
Workforce/2-Year College Prep
4-Year MT College/Univ Prep
(Rigorous Core)
CTE and/or Electives

4-Year MT College/Univ Prep
(Not Rigorous Core)

Recommended CTE Cluster Foundation Courses:
Ag 1

10th
Graduation Requirements
Workforce/2-Year College Prep
4-Year MT College/Univ Prep
(Rigorous Core)
CTE and/or Electives

4-Year MT College/Univ Prep
(Not Rigorous Core)

Recommended Other CTE Courses:
Ag 2, Ag 3, Ag 4

11th
Graduation Requirements
Workforce/2-Year College Prep
4-Year MT College/Univ Prep
(Rigorous Core)
CTE and/or Electives

4-Year MT College/Univ Prep
(Not Rigorous Core)

Recommended Other CTE Courses:

12th
Graduation Requirements
Workforce/2-Year College Prep
4-Year MT College/Univ Prep
(Rigorous Core)
CTE and/or Electives

4-Year MT College/Univ Prep
(Not Rigorous Core)

Recommended Other CTE Courses:

ADVANCED LEARNING OPPORTUNITIES
High School to College/Career Linkages

CTE START courses:

Advanced Placement or IB courses:

Dual Enrollment courses:

Online courses:

Other: Supervised Agricultural Experience (SAE) and participation in appropriate FFA activities support and reinforce classroom and laboratory learning, and should be a requirement for all students.

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>Writ101</td>
<td>AG104, AG114, AG110, AG150, AG278, AG140, AG232</td>
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<tr>
<td>13—Semester 2</td>
<td>M108</td>
<td>AG225, AG220</td>
<td>BIOO110, CAP131, CM110</td>
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<tr>
<td>Semester</td>
<td>Courses</td>
<td>Majors</td>
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<tr>
<td>14—Semester 1</td>
<td>AG150, AG278, AG230, AG140 AG232</td>
<td>BIOB160, BIOB101, BIOB161, BIOB102 ACTG101, ACTG201</td>
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<tr>
<td>14—Semester 2</td>
<td>AG225</td>
<td>BIOB265, BIOB266, BIOB110, SC209, SOC101, PSYX100</td>
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**Montana Postsecondary Opportunities**

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

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

<table>
<thead>
<tr>
<th>Colleges of Technology:</th>
<th>Community Colleges:</th>
<th>Tribal Colleges:</th>
<th>Four Year Colleges/Universities:</th>
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<tbody>
<tr>
<td>BLCOT—Billings; GFCOT—Great Falls; HCOT—Helena; TECOCOT—Butte; UMCO—Missoula; GCP—Bozeman</td>
<td>DCC—Glendive; FVCC—Kalispell; MCC—Missoula City</td>
<td>BFCC—Browning; CDKC—Lake Deer FBCC—Helena; FPCC—Poplar; LBCC—Crow Agency; SCC—Box Elder; SKC—Pablo</td>
<td>MSU—Bozeman, MSUB—Billings, MSUN—Missoula; UMW—Missoula; UMV—Dillon</td>
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<tr>
<th>MILITARY</th>
<th>Requires diploma or GED</th>
<th>17 with parental consent; 18 without</th>
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<tbody>
<tr>
<td>PROFESSIONAL CERTIFICATE</td>
<td>Requires diploma or GED</td>
<td>Less than 30 credits; little/none general ed credits; Complete in one year or less</td>
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<tr>
<td>APPRENTICESHIP</td>
<td>Requires diploma or GED</td>
<td>Must be at least 18; Minimum 2,000 hours of supervised experience</td>
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<tr>
<td>CERTIFICATE OF APPLIED SCIENCE</td>
<td>Requires diploma or GED</td>
<td>30-45 credits; limited general education credits; Complete in one year or less</td>
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<tr>
<td>ASSOCIATE’S OF APPLIED SCIENCE DEGREE</td>
<td>Requires diploma or GED</td>
<td>60-72 credits; includes 15-25 general ed credits; Complete in two years (if prepared academically in math and English)</td>
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<tr>
<td>BACCALAUREATE DEGREE</td>
<td>Requires 4-year college prep for admission</td>
<td>120 credits (approximately); Complete in four years</td>
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For more information: [http://todaysmilitary.com](http://todaysmilitary.com)

For more information on Agriculture, Food & Natural Resources, page 2 of 3 November 2010
| Earth Science — UMW  |
| Environmental Science & Forestry — SKC |

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