M O N T A N A   B O A R D   O F   R E G E N T S

NEW ACADEMIC PROGRAM PROPOSAL SUMMARY

Item No.: 134-1503-R0307	Institution: Montana Tech COT

1.   How does this program advance the campus' academic mission and fit priorities?

Montana Tech of The University of Montana College of Technology maintains a commitment to be responsive to the changing needs of society by supplying knowledge and education through a strong undergraduate curriculum. This program advances that mission by preparing students to utilize current and emerging web development tools to become competent technicians in the IT industry.

2.   How does this program fit the Board of Regents' goals and objectives?

The proposed degree program supports the goal of the Board of Regents; "to be responsive to market, employment, and economic development needs of the state and nation."

3.   How does this program support or advance Montana's needs and interests?

There currently exists an AAS and BS degree in Network Technology at Montana Tech. Past graduates of these degree areas as well as Advisory Committee members have stated that that many employment opportunities exist in the Web Technology field and that developing and managing a Web presence is an often requested service.   Producing competent technicians who are able to develop, manage, and secure a medium sized network infrastructure with a web presence will give students more employmernt choices in this growing field.

4.   How will this program contribute to economic development in Montana? (Note projected annual economic impact both regionally and statewide.)

Montana Occupational Projections predict that job opportunities for Computer Technicians will increase by 28% by the year 2012. On the national scene, employment is expected to increase faster than the average for all ocupations through 2014. Employment in the computer industry sector is projected to remain one of the fastest-growing industries in the U.S. economy. Also, students in this field may be able to secure employment with out-of-state companies and be able to stay in Montana, using remote access technology.

5.   What is the program's planned capacity?

• Break-even point?	5	FTE students
• Enrollments / year?	5	
• Graduates / year?	4	
• MT jobs / year?	3	

6.   Resource Allocation:

• Total program budget?	$ 14560/year for 1st 2 years
• Faculty FTE?	.4
• Staff FTE?	0

7.   Does this program require new resources? ☐ Yes   ☒ No
        If yes, what is the amount? $ _____

8.   How will the campus fund the program?

Current resources.

9.   If internal reallocation is necessary, name the sources.

No reallocation is necessary.

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Proposal

1. **Briefly describe the proposed new program. Please indicate if it is an expansion of an existing program, a new program; cooperative effort with another institution, business or industry; or an on-campus or off-campus program. Attach any formal agreements for this cooperative effort.**

   The Associate of Applied Science Degree in Web Development and Administration will prepare students to utilize current and emerging web development tools. The program will also produce competent technicians who are able to develop, manage, and secure a medium sized network infrastructure that supports a web presence.   The degree is unique in that it has a major focus in the organization and management aspects of web sites as well as web page creation. This proposal is for a new degree with select components from the existing AAS and BS Network Technology degrees.

2. **Summarize a needs assessment conducted to justify the proposal. Please include how the assessment plan was developed or executed and the data derived from the effort.**

   There currently exists an AAS and BS degree in Network Technology at Montana Tech. Past graduates of these degree areas as well as Advisory Committee members have stated that many employment opportunities exist in the Web Technology field and that developing and managing a Web presence is an often requested service. Also, students in these degrees have continually expressed a desire for additional coursework in web technologies. This degree will prepare technicians who are knowledgeable in computer support, network support, and be able to create and manage an organization's web presence.

3. **Explain how the program relates to the Role and Scope of the institution as established by the Board of Regents.**

   Institutional Mission – Montana Tech of The University of Montana is a specialty institution-emphasizing science and engineering, with occupational programs through graduate work. MT Tech strives to assist every student attain success in their academic, professional, and individual goals.

   The College Of Technology offers a wide array of programs from certificate to AAS Degrees. Many of the COT programs articulate into university level programs. The COT is sensitive to the economic needs of the region and provides opportunities for students to learn skills and techniques necessary for the challenges of our society.

   Montana Tech's vision provides for hands-on learning, which is integral in this degree area.

4. **Please state what effect, if any, the proposed program will have on the administrative structure of the institution. Also indicate the potential involvement of other departments, divisions, colleges, or schools.**

   The proposed new degree program will be placed in the existing Information Technology Department in the College of Technology of Montana Tech. The budgetary support would be provided within that structure.

   Faculty for the Web Technology degree area includes current members of the Network Technology degrees area, current members of the Professional Technical Communications degree area, and possibly part-time instructors. Faculty from the B.S/M.S. Professional Technical Communications department are providing input regarding course content as they may eventually list some of these classes as degree requirements in their department.

5. **Describe the extent to which similar programs are offered in Montana, the Pacific Northwest, and states bordering Montana. How similar are these programs to the one herein described?**

Institutions in Montana and neighboring states offer degrees involving web development. This degree is unique in that it has a major focus in the organization and management aspects of web sites as well as web page creation.

6. **Please name any other accrediting agency(ies) or learned society(ies) that would be concerned with the particular program herein proposed. How has this program been developed in accordance with criteria developed by said accrediting body(ies) or learned society(ies)?**

The program conforms to the requirements of the Northwest Commission on Colleges and Universities. Courses use instructional material endorsed by industry certification organizations.

7. **Prepare an outline of the proposed curriculum showing course titles and credits. Please indicate any plans for expansion of the program during its first three years.**

Proposed Curriculum
Web Development and Administration

Semester 1				Semester 2			
COMM	1046	English Composition	3	IT	0135	Computer Maintenance & Repair	3
IT	0110	Intro. To OS	3	IT	0126	Network Fund. - CCNA 1	4
IT	0100	Web Page Fundamentals (HTML/XHTML/XML)	3	IT	0247	Intro. to Programming	3
Math	1056	College Algebra	3	PTC	1146	Publications Design	2
IT	0270	Introduction to Oracle	3	IT	0130	Intro. to Windows Server	3
PSYC	1000	Psychology	3	IT	0117	Web Site Development	3
			18				18
Semester 3				Semester 4			
IT	0176	Routing/Switching - CCNA 2	4	IT	3546	Advanced Linux	3
IT	0154	Introduction to Linux	3	IT	3056	Web Server Administration	3
IT	0250	Interactive Web Pages	3	IT	0253	Java	3
IT	0280	Oracle II	3	COMM/PTC	XXXX	Approved COMM/PTC Elective	3
PTC	2506	Webpage Design	3	IT	0254	Web Graphics/Video Integration	3
				IT	0255	Web Scripting/Programming	3
			16				18

Total credits - 70

Faculty and Staff Requirements

1. **Please indicate, by name and rank, current faculty who will be involved with the program proposed herein.**

   Current faculty to be involved are:
   Jim Freebourn, BS, Instructor, Information Technology
   Rita Lamiaux, BS, Instructor, Information Technology
   Chad Okrush, Ph.D/ABD, Asst. Professor, Professional & Technical Communications
   Ed Metesh, M.Ed., Asst. Professor, Chair, Information Technology

2. **Please project the need for new faculty over the first five-year program. Include special qualifications or training. If present faculty are to conduct the new program, please explain how they will be relieved from present duties.**

   The proposed Associate of Applied Science Degree in Web Development and Administration requires 6 new courses. These new courses would be offered once per academic year. Two members of the Information Technology Department currently teach a service course each semester outside of the Department's course requirements. These instructors would now teach exclusively in the Department's degree requirements. The remaining 2 courses may be on a summer semester rotation or perhaps some other required courses may be contracted to a part-time instructor.

   Current IT Department faculty will most likely be asked to attend training in preparation for some of the classes.

3. **Please explain the need and cost for support personnel or other required personnel expenditures.**

   No additional costs will be incurred.

Capital Outlay, Operating Expenditures, and Physical Facilities

1. **Please summarize operating expenditure needs.**

   The current College of Technology operational dollars within the Information Technology Department will cover the cost of the program.

2. **Please evaluate library resources. Are they adequate for operation of the proposed program? If not, how will the library need to be strengthened during the next three years?**

   The program is currently serviced by resources in the library. No new library sources will be required.

3. **Please indicate special clinical, laboratory, and/or computer equipment that will be needed. List those pieces of equipment or computer hardware presently available in the department.**

   The current classrooms and computer equipment will be adequate if kept on a reasonable and continual replacement/upgrade plan.

4. **Please describe facilities and space required for the proposed program. Are current facilities adequate for the program? If not, how does the institution propose to provide new facilities?**

   Current classrooms and facilities are adequate.

Evaluation of Proposed Program

1. **Please name faculty committees or councils that have reviewed and approved   the program herein proposed.**

    Montana Tech Web Curriculum Advisory Committee
    Montana Tech Curriculum Review Committee
    Montana Tech Full Faculty

2. **If outside consultants have been employed, please list the names of these consultants, their current positions and titles. Append copies of their written reports (this is a requirement of new doctoral programs).**

    No outside consultants were employed.

BUDGET ANALYSIS

ITEM: 134-1503-R0307
Campus: Montana Tech College of Technology
Proposed Program: Web Development and Administration

	Year 1		Year 2		Year 3		Year 4		Year 5	
Estimated **ENROLLMENT**										
FTE Enrollment	4.8		10.8		10.8		10.8		10.8	
Estimated Incremental **REVENUE**										
Use of Current General Operating Funds										
State Funding for Enrollment Growth	0		0		0		0		0	
Tuition Revenue										
A. Gross Incremental Tuition Revenue	12000		27000		27000		27000		27000	
B. Reductions to Incremental Tuition										
C. Net Tuition Revenue (A-B)	12000		27000		27000		27000		27000	
Program/Course Fees	1000		2250		2250		2250		2250	
External Funds										
Other Funds (please specify)										
TOTAL Estimated Incremental Revenue	13000		29250		29250		29250		29250	
Estimated Incremental **EXPENDITURES**										
Personal Services	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost
Faculty	0.4	11000	0.4	11000	0.4	11000	0.4	11000	0.4	11000
Other Staff										
Operating Expenses										
Equipment										
Start-up Expenditures	4000		4000							
TOTAL Estimated Incremental Expenditures	15000		15000		11000		11000		11000	
Estimated Revenues Over/(Under) Expenditures	-2000		14250		18250		18250		18250	