



## Wyoming Community College Commission 2013-2014 Academic Program Review Report

Program review is one of the statutory duties of the WCCC. The Annual WCCC Academic Program Review Report is designed to provide condensed program information for the WCCC in order to carry out WCCC's statutory review and oversight function as per 21-18-202.d.(ii):

*Review existing programs, determine the most effective and efficient delivery of programs qualifying for state funding pursuant to the statewide community college system strategic plan and terminate state funding for those programs which are inconsistent with the statewide community college system strategic plan;*

The WCCC Academic Affairs Council (AAC) members designed this report by integrating information from colleges' program review process with additional current data along with other pertinent program specific information. All the community colleges' program review processes contain more review criteria than are reported to the WCCC members in this report.

The WCCC did a final review of the format of this report in 2013 and the first Annual WCC Academic Program Review Report was in the same year. For the report, all credit program or program cluster reviews are reported to the WCCC once each five years. This annual report is planned for distribution to the commissioners before the fall quarterly WCCC meeting. The individual community colleges use a variety of internal review cycles. The review cycle length for some programs is influenced by program specific accrediting agencies. The Annual WCCC Academic Program Review Report is comprised of two components:

### Part A

Each community college's Program Review Summary (Excel spreadsheet template) for program reviews reported to the WCCC that academic year. This document contains information that has been updated to include the previous academic year.

### Part B

Each Executive Overview of Program Review in Part B, is specific to each community college's program or a cluster of related programs. These program reviews include information from the most recent program review conducted. The community colleges include, at their discretion, information regarding: specialized accreditation, advisory committee actions, employment information, program improvements, student engagement, course grades, quality indicators, articulation agreements, retention rates, student outcomes, class size

restrictions, faculty qualifications, sufficiency of resources, or capacity to improve/advance the program. However, these reviews are designed to be brief and will only address a few of these topics.

The complete report will be posted to the WCCC website under “Reports”. The 2014 program reviews or cluster of program reviews reported to the WCCC include:

- Accounting
- Administrative Assistance
- Agriculture
- Anthropology
- Apprenticeship
- Art
- Automotive body repair
- Biology
- Biotechnology
- Business
- Chemistry
- Corrections
- Cosmetology
- Criminal Justice
- Customer Service
- Construction Technology
- Dance
- Diesel Power Technology
- Diagnostic medical sonography
- Drafting
- Earth and Physics
- Economics
- Education
- Engineering
- Engineering technology
- English
- English as a second language
- Environmental Science
- Equine studies
- Graphics
- Health Information
- History
- Homeland Security
- Interdisciplinary studies
- Life Science
- Marketing
- Mathematics
- Mass media
- Music
- Nursing
- Office Information Management
- Office Management
- Outdoor Education / Leadership
- Photography
- Physical Education
- Physical Science
- Physical therapy assistant
- Radiography
- Social Science
- Sociology
- Speech
- Theatre
- Veterinary
- Welding

## Casper College

Academic Year Reported: AY 13-14	CC													
<b>Casper College Program Name</b>		Chemistry	Construction	Criminal Justice	Dance	Diesel Power	Drafting	Engineering	Fire Science Technology	Gender Studies	Office Management	Radiography	Theatre	Welding
<b>CIP code</b>		40.0501	46.0000; 52.2001	43.0104 43.0106	50.0301	47.0605	15.1301; 15.1303; 15.1306	14.0101	43.0203	05.0207	52.0401	51.0911; 51.0920; 51.0999	50.0506; 50.0502; 50:0509	48.0508
<b>Name of credential(s)</b>		AS in Chemistry	AAS in Construction Technology; Certificate in Construction Tech; AS in Construction Management	AA in Criminal Justice; AAS in Criminal Justice; AS in Forensic Science	AA in Dance	AAS in Diesel Power Technology Certificate in Diesel Power Technology	AAS in Drafting and Design Tech; Certificate in Architectural Graphics and Design; Certificate in Mechanical Graphics and Design	AS in Engineering	AAS in Fire Science Technology Certificate in Fire Science Tech	AA in Women's and Gender Studies; Certificate in Women's and Gender Studies	AAS in Office Management; Certificate in Office Management	AS in Radiography Certificate in Magnetic Resonance Imaging; Certificate in Computed Tomography	AA in Theatre Performance AA in Theatre Technology; AA in Musical Theatre Performance	AAS in Welding ; Certificate in Welding
<b>Active Partnerships (Yes/No)</b>		No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes
<b>Name of specialized accreditation organization (if applicable)</b>		N/A	ACBSP	No	NASD	No	No	No	No	No	ACBSP	JRCERT	NAST	No
<b>Active Advisory Committee (Yes/No)</b>		No	Yes	No	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
<b>Offering mode(s) (Face-to-face, distance learning or hybrid)</b>		All	Face-to-Face	All	Face-to-face	Face-to-face	All	All	All	Face-to-face; distance learning	All	Face-to-face; distance learning	Face-to-face; distance learning	Face-to-face
<b>Prefix</b>		CHEM	CNTK	CRMJ	THEA	DESL	ENTK	ES, CE	FIRE	GNDR, WMST	BOTK, CMAP	RDTK	THEA	WELD
<b>Credit hour enrollment in courses with the course prefix (above) for the past five academic years</b>	AY 13-14	1822	790.5	710	377	1068.5	702	438	1053	480	483	761	952	995.5
	AY 12-13	1667	765.5	769	338	1051.5	659	485	1032	482	497	859	1058	1094
	AY 11-12	1693	941.5	848	363	1017	912	410	1039	501	618	628	1105	1038.5
	AY 10-11	1768	907	903	376	928	798	380	1239	545	872	603	984	1149.5
	AY 09-10	1549	827	1007	231	1111	807	372	1376	339	820	593	1192	1260



<b>Central Wyoming College</b>												
<b>Academic Year Reported: AY 13-14</b>		<b>CWC</b>										
<b>Central Wyoming College Program Name</b>		Accounting	Biological Science	Construction & FMT	Criminal Justice	Equine Studies & Farrier	Homeland Security	Outdoor Education	Physical Science	Theater	Welding	
<b>CIP code(s)</b>		52.0301 52.0302	26.0101	46.0201 46.0401	43.0103	1.0507 1.0599	43.9999	31.0304 31.0101	40.0101	50.0501 50.0502 50.0506	48.0508	
<b>Name of credential(s)</b>		AS AAS CERT	AS	AAS CERT CERT II (CRD)	AA AAS	AS AAS CERT CERT II (CRD)	AS	AA AAS CERT II (CRD)	AS	AA	AAS CERT CERT II (CRD)	
<b>Active Partnerships (Yes/No)</b>		NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	
<b>Name of specialized accreditation organization (if applicable)</b>		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
<b>Active Advisory Committee (Yes/No)</b>		YES	NO	YES	YES	YES	YES	NO	NO	NO	YES	
<b>Offering mode(s) (trad., distance or hybrid)</b>		HYBRID	HYBRID	TRAD	HYBRID	TRAD	HYBRID	HYBRID	HYBRID	TRAD	TRAD	
<b>Four letter course prefix</b>		ACCT	BIOL	CNTK FMT	CRMJ	EQST	HSEC	EDUC G&R	CHEM PHYS GEOL	THEA	WELD	
<b>Credit hour enrollment in courses with the course prefix (above) for the past five academic years</b>		AY13-14	499	1631	454.5	728.5	1039	138	560	945	237.5	785
		AY 12-13	449	1359	246.5	632	938	327	870	1335	284	562
		AY 11-12	469	1662	422.5	513	878	357	892	1239	390.5	718
		AY 10-11	568	1301	240	551.5	873	310	944	1214	434	336
		AY 09-10	485	1101	323.5	561	1409	249	366	1076	441.5	607
<b>Number of declared majors for the past five academic years</b>		AY13-14	61	47	39	99	53	8	105	9	24	49
		AY 12-13	71	53	48	103	40	9	143	6	32	48
		AY 11-12	61	47	39	99	46	10	138	6	31	45
		AY 10-11	83	31	55	105	50	16	141	5	31	40
		AY 09-10	57	34	34	106	55	13	143	4	35	53
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>		AY13-14	8	8	0	12	18	0	11	0	5	17
		AY 12-13	2	5	1	4	15	0	34	0	6	2
		AY 11-12	7	3	9	10	23	0	49	1	7	11
		AY 10-11	15	4	10	6	35	1	22	0	5	11
		AY 09-10	10	6	5	5	21	0	47	0	4	13



<b><i>Eastern Wyoming College</i></b>							
<b>Academic Year Reported: AY 13-14</b>		<b>EWC</b>					
<b>Eastern Wyoming College Program Name</b>		BIOL.AS, ENVR.AS, and WILD.AS - <b>Biology</b>	CJCC.CD, CJCDL.CD, CJCR.AA, CJDL.AA, CJLE.AA, CMJT.AAS, CRDL.AA, CRMJ.AA – <b>Criminal Justice</b>	ECON.AS - <b>Economics</b>	VTTK.AAS and VTAD.CD – <b>Veterinary</b>	WJTK.AAS, WJTK.CD, WJTK.C, and MTT.CD <b>Welding</b>	
<b>CIP code</b>		26.0101, 26.1305, and 03.0601	43.0102, 43.0113, 43.0104, 43.0103, and 43.0107	45.0601	51.0808	48.0508 and 48.0503	
<b>Name of credential(s)</b>		Biology, Environmental Science, Wildlife/Fisheries Biol & MGT	Criminal Justice- Corrections, Criminal Justice- Law Enforcement, and Criminal Justice	Economics	Veterinary Technology and Veterinary Aide	Welding & Joining Technology, Plate Welding, and Machine Tool	
<b>Active Partnerships (Yes/No)</b>		No	Yes	No	Yes	Yes	
<b>Name of specialized accreditation organization (if applicable)</b>		No	No	No	American Veterinary Medical Association	American Welding Society	
<b>Active Advisory Committee (Yes/No)</b>		No	Yes	No	Yes	Yes	
<b>Offering mode(s) (Face-to-face, distance learning or hybrid)</b>		FF and DL	FF and DL	FF and DL	FF	FF	
<b>Prefix</b>		BIOL, BOT, CHEM, GEOL, MOLB, PHYS, and ZOO	CRMJ	ECON	VTTK	WELD and MCHT	
<b>Credit hour enrollment in courses with a {insert four letter prefix } course prefix for each of the past five academic years</b>		<i>AY 13-14</i>	226	82	18	122	252
		<i>AY 12-13</i>	189	97	6	113	299
		<i>AY 11-12</i>	187	88	18	105	312
		<i>AY 10-11</i>	195	62	6	105	240
		<i>AY 09-10</i>	205	53	15	107	189
<b>Number of declared majors for the past five academic years</b>		<i>AY 13-14</i>	13	56	0	103	125
		<i>AY 12-13</i>	16	73	1	104	153
		<i>AY 11-12</i>	3	75	1	84	147
		<i>AY 10-11</i>	10	89	0	93	134
		<i>AY 09-10</i>	8	69	0	76	94

<b>Academic Year Reported: AY 13-14</b>	<b>EWC</b>					
<b>Eastern Wyoming College Program Name</b>		Biology	Criminal Justice	Economics	Veterinary	Welding
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>	<i>AY 13-14</i>	1	6	0	9	70
	<i>AY 12-13</i>	0	7	1	14	66
	<i>AY 11-12</i>	0	6	0	12	52
	<i>AY 10-11</i>	0	7	0	28	36
	<i>AY 09-10</i>	3	6	0	10	44
<b>Total number of community college service area resident program graduates for the past five years</b>	<i>AY 13-14</i>	0	2	0	1	12
	<i>AY 12-13</i>	0	2	0	1	28
	<i>AY 11-12</i>	0	2	0	1	16
	<i>AY 10-11</i>	0	1	0	1	16
	<i>AY 09-10</i>	0	3	0	0	13
<b>Total number of Wyoming resident program graduates for the past five years</b>	<i>AY 13-14</i>	0	6	0	1	49
	<i>AY 12-13</i>	0	3	0	5	64
	<i>AY 11-12</i>	0	2	0	8	46
	<i>AY 10-11</i>	0	4	0	8	28
	<i>AY 09-10</i>	2	5	0	3	30
<b>Plan for assessment follow-up (no, in-progress or done)</b>		in-progress	in-progress	in-progress	in-progress	in-progress

<b><i>Laramie County Community College</i></b>									
<b>Academic Year Reported: AY 13-14</b>		<b>LCCC</b>							
<b>Laramie County Community College Program Name</b>		Biology	Criminal Justice	Engineering	Equine Studies	Fire Science	Chemistry	Radiography	
<b>CIP code(s)</b>		26.0101	43.0103	14.0101	1.0507	43.0201 43.0203	40.0501	51.0911	
<b>Name of credential(s)</b>		AS	AA	AS	AS, AAS	AS, AAS, CERT	AS	AAS	
<b>Active Partnerships (Yes/No)</b>		NO	NO	NO	NO	NO	NO	NO	
<b>Name of specialized accreditation organization (if applicable)</b>						FESHE		JRCERT	
<b>Active Advisory Committee (Yes/No)</b>		NO	NO	NO	YES	YES	NO	YES	
<b>Offering mode(s) (trad., distance or hybrid)</b>		trad, online	trad, online	trad	trad	trad, online	hybrid, trad, online	trad	
<b>Four letter course prefix</b>		BIOL	CRMJ	ES	EQST	FIRE	CHEM	RDTK	
<b>Credit hour enrollment in courses with the course prefix (above) for the past five academic years</b>		<i>AY13-14</i>	1877	870	93	967	255	953	883
		<i>AY 12-13</i>	1913	762	148	1192	521	989	854
		<i>AY 11-12</i>	1948	882	189	1099	480	1080	816
		<i>AY 10-11</i>	2114	789	73	1214	409	1113	857
		<i>AY 09-10</i>	1727	804	88	1459	243	1016	814
<b>Number of declared majors for the past five academic years*</b>		<i>AY13-14</i>	81	91	107	58	41	17	32
		<i>AY 12-13</i>	100	87	100	63	47	12	32
		<i>AY 11-12</i>	129	81	106	58	35	7	32
		<i>AY 10-11</i>	131	77	86	70	39	14	32
		<i>AY 09-10</i>	43	57	89	65	13	15	32
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>		<i>AY13-14</i>	5	18	0	14	4	0	12
		<i>AY 12-13</i>	3	15	5	18	6	0	12
		<i>AY 11-12</i>	1	9	2	14	1	0	15
		<i>AY 10-11</i>	0	11	5	16	1	2	11
		<i>AY 09-10</i>	0	18	1	8	1	3	17

<b>Academic Year Reported: AY 13-14</b>	<b>LCCC</b>							
<b>Laramie County Community College Program Name</b>		Biology	Criminal Justice	Engineering	Equine Studies	Fire Science	Chemistry	Radiography
<b>Number of community college service area resident program graduates for the past five years</b>	<i>AY13-14</i>	3	15	0	8	3	0	5
	<i>AY 12-13</i>	3	14	5	3	6	0	6
	<i>AY 11-12</i>	0	6	2	3	1	0	8
	<i>AY 10-11</i>	0	10	5	5	1	1	9
	<i>AY 09-10</i>	0	16	1	2	1	3	10
<b>Total number of Wyoming resident program graduates for the past five years</b>	<i>AY13-14</i>	3	18	0	9	3	0	6
	<i>AY 12-13</i>	3	15	5	6	6	0	8
	<i>AY 11-12</i>	0	8	2	4	1	0	9
	<i>AY 10-11</i>	0	11	5	5	1	1	10
	<i>AY 09-10</i>	0	17	1	2	1	3	11
<b>Plan for assessment follow-up (none, in-progress or done)</b>		NONE	NONE	NONE	NONE	NONE	NONE	NONE

\*NOTE: Because Radiology is a closed program, declared major counts were determined by contacting the program director using a FA-SP-SU academic year definition. The other programs follow a SU-FA-SP academic year definition and are pulled from LCCC's database.

## Northwest College

Academic Year Reported: AY 13-14		NWC									
Northwest College Program Name		Accounting {Accounting, Business Administration}	Administrative Assistant	Biology {Biology, Natural Resource Biology, Pre- Professional Sciences}	Chemistry	Criminal Justice	Drafting	Engineering	Equine Studies {Equine Business Management, Equine Riding and Training, Farrier Business Management}	Welding Technology	
CIP code(s)		52.0201, 52.0301	52.0401	03.0201, 26.0101, 51.1103, 51.1199	40.0501	43.0103	15.1302	14.0101	01.0507	48.0508	
Name of credential(s)		AS	AAS, CERT	AS	AS	AA	AAS, CERT	AS	AAS, CERT	AAS, CERT	
Active Partnerships (Yes/No)		Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
Name of specialized accreditation organization (if applicable)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Active Advisory Committee (Yes/No)		No	Yes	No	No	No	Yes	No	Yes	Yes	
Offering mode(s) (trad., distance or hybrid)		Traditional, hybrid	Traditional, distance, hybrid	Traditional, distance, hybrid	Traditional, distance, hybrid	Traditional, distance	Traditional, hybrid	Traditional, hybrid	Traditional, hybrid	Traditional	
Four letter course prefix		ACCT	BADM	BIOL	CHEM	CRMJ	ENTK	ES	EQST	WELD	
Credit hour enrollment in courses with the course prefix (above) for the past five academic years		AY13-14	408	1179	1614	631	826	439	278	638.5	1751
		AY 12-13	590	1257	1859	765	753	421	327	741.5	1575
		AY 11-12	421	1327	1829	785	678	546	301	776.5	1584
		AY 10-11	404	1204	1804	733	654	708	267	968	1371
		AY 09-10	510	1385	1626	650	798	852	266	1136	1534
Number of declared majors for the past five academic years		AY13-14	122	9	103	5	92	28	79	39	75
		AY 12-13	101	14	99	10	75	37	67	42	68
		AY 11-12	108	17	136	6	84	42	71	49	66
		AY 10-11	109	18	129	6	67	45	62	59	61
		AY 09-10	128	14	111	11	59	48	60	68	72



<b><i>Northern Wyoming Community College</i></b>																						
<b>Academic Year Reported: AY 13-14</b>		<b>NWCCD</b>																				
<b>Northern Wyoming Community College Program Name</b>		Biology			Bio-technology	Construction Tech		Carpentry Apprenticeship	Criminal Justice			Engineering		Farrier Science		Theater						
<b>CIP code(s)</b>				26.0101	26.1201		46.0415		46.0499			43.0104		14.0101		01.0307		50.0501				
<b>Name of credential(s)</b>				AS	Cert		Cert	AAS	Cert		AA/ AS	AAS	Cert		AS		Cert		AA			
<b>Active Partnerships (Yes/No)</b>		No				Yes				Yes			No			Yes		Yes				
<b>Name of specialized accreditation organization (if applicable)</b>		None				none				none			none			none		none				
<b>Active Advisory Committee (Yes/No)</b>		No				Yes				Yes			No			Yes		Yes				
<b>Offering mode(s) (trad., distance or hybrid)</b>		trad	dist	hybrid			trad							trad	dist		trad	dist	trad			
<b>Four letter course prefix</b>			BIOL	MOLB			CNST						CRMJ			ES		EQST		THEA		
<b>Credit hour enrollment in courses with the course prefix (above) for the past five academic years</b>		AY13-14	569	110			471							1083			115		196		363	
		AY 12-13	485	82			559							1155			114		149		430	
		AY 11-12	494	103			452							1068			75		112		209	
		AY 10-11	495	98			582							1296			123		na		177	
		AY 09-10	471	108			442							1050			162		na		143	
<b>Number of declared majors for the past five academic years</b>		AY13-14			35	1		19	6					75	31	13		20		12		29
		AY 12-13			33	1		9	2					90	39	10		34		14		25
		AY 11-12			25	0		10	7					76	36	10		25		4		9
		AY 10-11			25	4		10	5	3				63	37	8		36		na		3
		AY 09-10			28	4		7	6	1				46	37	10		38		na		3



<b><u>Western Wyoming Community College</u></b>						
<b>Academic Year Reported: AY 12-13</b>						
<b>Western Wyoming Community College Program name</b>		Administrative Assistant	Biology	Criminal Justice	Dance	Chemistry
<b>CIP code</b>		52.0401	26.0101	43.0103	50.0301	40.0501
<b>Name of credential(s)</b>		ONE YEAR ADMINISTRATIVE ASSISTANT CERTIFICATE	AS.BIOLOGY AS.PRE-RANGELAND ECOLOGY AS.PRE-FORESTRY AS.PRE-WILDLIFE BIOLOGY	AA.CRIMINAL JUSTICE AAS.LAW ENFORCEMENT	AA.DANCE	AS.CHEMISTRY
<b>Active Partnerships (Yes/No)</b>		Yes, on ad-hoc basis, Internships with several business entities in the community	Yes, on ad-hoc basis with Wyoming Fish & Game Department	Yes, GRPD, RSPD, and Sheriff's Office	No	
<b>Name of specialized accreditation organization (if applicable)</b>		No	No	No	No	
<b>Active Advisory Committee (Yes/No)</b>		Yes	No	Yes	No	
<b>Offering mode(s) (Face-to-face, distance learning or hybrid)</b>						
<b>Credit hour enrollment in courses with a {insert four letter prefix } course prefix for each of the past five academic years</b>	AY 13-14	651	2386	855	1160	637
	AY 12-13	629	3057	789	1410	822
	AY 11-12	640	3405	750	1610	753
	AY 10-11	721	3263	600	2174	635
	AY 09-10	677	3062	702	1665	717
<b>Number of declared majors for each of the past five academic years</b>	AY 13-14	13	51	121	8	5
	AY 12-13	8	51	104	8	8
	AY 11-12	6	55	107	12	14
	AY 10-11	11	41	77	5	8
	AY 09-10	4	49	92	5	5

<b>Academic Year Reported: AY 12-13</b>	<b>WWCC</b>					
<b>Western Wyoming Community College Program name</b>		<b>Administrative Assistant</b>	<b>Biology</b>	<b>Criminal Justice</b>	<b>Dance</b>	<b>Chemistry</b>
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>	<i>AY 13-14</i>	4	15	17	1	0
	<i>AY 12-13</i>	2	16	16	7	0
	<i>AY 11-12</i>	3	7	16	2	3
	<i>AY 10-11</i>	2	14	16	1	0
	<i>AY 09-10</i>	1	10	11	0	1
<b>Total number of community college service area resident program graduates for the past five years</b>	<i>AY 13-14</i>	2	3	5	1	0
	<i>AY 12-13</i>	2	4	4	3	0
	<i>AY 11-12</i>	1	2	5	2	2
	<i>AY 10-11</i>	1	5	5	1	0
	<i>AY 09-10</i>	1	4	3	0	1
<b>Total number of Wyoming resident program graduates for the past five years</b>	<i>AY 13-14</i>	3	3	5	1	0
	<i>AY 12-13</i>	2	5	6	2	0
	<i>AY 11-12</i>	2	2	6	3	2
	<i>AY 10-11</i>	1	5	5	1	0
	<i>AY 09-10</i>	1	4	4	0	1
<b>Plan for assessment follow-up (no, in-progress or done)</b>		in-progress	in-progress	in-progress	in- progress	in-progress

# Executive Overview of Program Reviews

---

## *Casper College*

---

### **Name of program: Business Information Systems Office Management**

CIP Code(s) (six digits): 52.0204

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-2014}

Credential(s) awarded: A.A.S. Computer Security, A.A.S. Office Management, A.A.S. Software Support Specialist, A.S. Computer Security, Certificate in Computer Security, Certificate in Office Management, Certificate in Software Application

### Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Department/Program Vision, Mission, Philosophy and Description

A. Vision Statement

Our vision is to provide the knowledge and skills necessary to function and thrive in the 21st century through innovative and modern technology. Learning will be enhanced with ever-changing computer software and technologies relevant to the needs of the students and the programs they have chosen.

B. Mission Statement

Technology continues to drive change in the current workplace and today's technology workers must be able to keep up with these changes to support activities relevant to the dynamic workplace. The Business Information Systems Department develops and emphasizes educational programs that advance the skills and knowledge necessary for vocational, academic, and lifelong education. All programs incorporate traditional and innovative equipment, current software, and resources within the limits of legal and fiscal responsibilities. This department recognizes the value of students as individuals and strives for effective teacher-student interaction along with training and information about current and emerging technologies.

C. Philosophy

Technology requires a hands-on approach in order to learn the software and techniques for implementing technology appropriately. Students need to become familiar with the ultimate potential of the software and ways to incorporate technology into everyday situations. Faculty members provide an interactive learning environment using lecture, hands-on projects, technology, portfolios and

other real-time learning opportunities. It is the philosophy of this department that all students should be given access to quality instruction via the Internet or other distance education options. This instruction should meet the same quality standards as our traditional face-to-face classes. All full-time and adjunct faculty members currently teach online courses. Assessments for distance education classes are consistent with assessments used in traditional classes.

D. Articulation Agreements

The Business Information Systems Department articulates with the Natrona County School District business teachers, Midwest High School, Kelly Walsh High School and University of Wyoming.

E. Advisory Board

The function of the advisory board is to provide advice and counsel to program managers and faculty relevant to specific degrees and certificate programs. The primary purpose of the board is to ensure that our degree programs and certificates are relevant to the Casper and surrounding area community, address current industry standards, meets workforce needs, and have the resources necessary to provide and attain our learning outcomes.

**Name of program: Chemistry, Pre-Pharmacy**

CIP Code(s): Chemistry – 40-0501; Pre-Pharmacy – 51-1103

Date this report is presented to the WCCC: August 2014

Academic year review was done: 2013-14

Credential(s) awarded: Associate of Science in Chemistry; Associate of Science in Pre-Pharmacy

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Mission: The Chemistry Department's mission is to facilitate students' acquisition of knowledge and understanding of chemical concepts and laboratory techniques at a level appropriate to the requirements of their declared majors and career goals.

Department Goals for 2014-15:

- To offer courses that expose students to the concepts of chemistry in a relevant, contemporary manner, and to the most efficient and cost-effective laboratory methods possible.
- To continue to offer the AS Chemistry degree and AS Pre-Pharmacy degrees by teaching all necessary courses.
- To increase student success rates in the courses offered
- To prepare students for success beyond the AS Chemistry and AS Pre-Pharmacy levels

The Chemistry department at Casper College provides excellent service to students needing a lab science class for general education; remarkable opportunities for those students wishing to study Chemistry or Pre-Pharmacy in-depth; and outstanding preparation for transfer to higher degrees and careers.

Additional Narrative:

Student Learning Outcomes:

- Demonstrate a basic understanding of chemical concepts and theories.
- Demonstrate critical thinking to analyze and solve chemical problems.
- Demonstrate laboratory skills to handle chemicals, equipment and instrumentation.
- Demonstrate writing skills to communicate scientific information effectively.
- Be prepared to pursue careers in the chemical sciences beyond the Associate of Arts level.

Department Strengths:

- All faculty members have PhD's in Chemistry and are members in good standing with the American Chemical Society.
- The laboratory and teaching facilities are excellent.
- Smaller class sizes allow for individual attention and student growth.

Based on the program review and assessment data collected during 2013-14, the program plans to:

- Change grading procedures on written assignments to provide better feedback to the students and collect more assessment data.
- Acquire necessary lab equipment to enhance educational opportunities.
- Maintain and strengthen the articulation agreements between Casper College and the local high schools as well as our partnership with UW for both Chemistry and Pre-Pharmacy graduates.

**Name of program: Construction Technology**

CIP Code(s) (six digits): 46.0000; 52.2001

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-2014}

Credential(s) awarded: A.A.S. Construction Technology, A.S. Construction Management, A.S. Industrial Arts and Certificate in Construction Technology

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

- I. Department/Program Vision, Mission, Philosophy and Description
  - E. Vision Statement  
To become the premier construction program in the region.
  - F. Mission Statement  
To provide quality educational experience for both the construction manager and the crafts person promoting lifelong learning and growth in the workplace.
  - G. Teaching Philosophy and Pedagogy
    1. Teaching Philosophy & Pedagogy  
The teaching philosophy of the construction Technology department is to develop a relationship with students through demonstration of instructor expertise and concern for student learning. Most classes are small and the same instructor interacts with the students in many different classes.

2. Digital Learning Philosophy

Most of the current students are tactile learners and distance education will not serve them; distance offerings are being considered in the management classes for the articulation.

3. Dual Enrollment Philosophy

The department encourages dual enrollment as evidenced by the many articulation agreements; we are anticipating this will increase enrollment. We have included the Transitions school in a “Cabin” project to encourage “at risk” students to consider Casper College. Positive relationships with Natrona County School District, including Natrona County High School and Roosevelt, have contributed to several successful cabin projects. Additionally, we have an articulation agreement with Buffalo High School in Buffalo, Wyoming that allows students to enroll in CNTK 1630 and CNTK 1860 in their high school receiving credit for college coursework. Credits earned will be applicable to an Associates of Applied Science degree should they choose to attend Casper College.

H. Articulation Agreements

- a. NCSD
- b. South Dakota State University
- c. UW/CC

The advisory board for the Construction Technology Program meets annually in the spring and membership includes a diverse cross-section of community members in the construction and trades occupations.

Specialized Accreditation: The Construction Management Degree is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). ACBSP accreditation requires that qualifications of faculty and adjunct faculty must be a master’s degree in the teaching field or be professionally qualified that includes professional certifications, in-field professional employment, teaching excellence, in-field research and publication and/or relevant additional coursework beyond the bachelor’s degree.

**Name of program: Criminal Justice**

CIP Code (six digits): 43.0199

Academic year this report is made: {’13-’14}

Academic year review was done: {’13 – ’14}

Credential(s) awarded: A.A.S in Criminal Justice; A.A. in Criminal Justice; A.S. in Forensic Science

Program’s role and alignment with student, employer, service area, and/or State of Wyoming needs:

*Mission Statement:* The Criminal Justice program provides students with high quality and professionally experienced faculty and curricula that develop introductory knowledge in the areas of policing, criminology, criminal law, criminal courts and corrections from a social science perspective that prepares students for continued education at a higher-level institution or professional training academy, or a career in criminal justice.

## Additional Narrative:

### *Faculty Members:*

- Art Washut, MPA – Former Casper Chief of Police
- Maya Russell, M.A. and J.D. – Former Law Clerk for District Courts of Wyoming

### *Adjunct Faculty Members*

- John Becker, BA – Natrona County Sheriff's Deputy
- Scott Wonser, MA – Probation and Parole Supervisor
- Rodney Dye, AA – Former Evansville Chief of Police; 20+ years firearms instructor experience

*Interactions with Local and State Law Enforcement:* The Criminal Justice faculty members interact with the Casper Police Department, Natrona County Sheriff's Office, and Wyoming Law Enforcement Academy to discuss training, education, and departmental personnel needs.

*Interactions with University of Wyoming-Casper:* Criminal Justice students have the opportunity to complete bachelor degrees through the UW-C to facilitate student transitions regular interactions occur with the UW Criminal Justice Department.

*Criminal Justice Club:* A club for CC and UW/C students is active in campus activities and service projects.

## **Name of program: Diesel Power**

CIP Code(s) (six digits): 47.0605

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-2014}

Credential(s) awarded: A.A.S. Diesel Power Technology and Certificate in Diesel Power Technology.

### Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

- II. Department/Program Vision, Mission, Philosophy and Description
  - I. Vision Statement  
Skill training for a lifelong career in Diesel Power Technology
  - J. Mission Statement  
The primary objective of the Diesel Power Program is to instruct each student in those things that will make him or her a valuable and employable apprentice technician in the diesel power industry.
  - K. Teaching Philosophy and Pedagogy
    1. The primary objective of the Diesel Power Program is to instruct each student in those things that will make him or her a valuable and employable apprentice technician in the diesel power industry.
    2. Digital Learning Philosophy

Digital learning will be used to ensure syllabi are in Moodle within the next year.

3. Dual Enrollment Philosophy

The department encourages dual enrollment as evidenced by articulation agreements with all three Natrona County High Schools working with BOCES.

Departmental Advisory Committee:

The function of the advisory board is to provide advice and counsel to program managers and faculty relevant to specific degrees and certificate programs. One of the most important purposes is to make sure that our programs are providing the training needed in the industry and that we are meeting workforce needs. The advisory board focuses on program development, curriculum review, program evaluation, faculty guidance, and student recruitment. The advisory board for the Diesel Power Technology Program meets annually in the spring and membership includes a diverse cross-section of community members in the diesel and trades occupations. These members provide opportunities for students and provide faculty with knowledge and expertise regarding diesel power technology trade area.

Special Events or Activities

- Wyoming Trucking Association seminars
- Ford Diesel Training
- Wyoming Pupil Transportation Association seminars
- Napa Tools and Equipment Training

**Name of program: Engineering**

CIP Code(s): 14.0101

Date this report is presented to the WCCC: August 2014

Academic year review was done: 2013-14

Credential(s) awarded: Associate of Science – Engineering

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Mission: The mission of the engineering program is the same as the mission of the college, student success. The engineering program's goal is to prepare students, through a rigorous and encompassing curriculum, to successfully transfer to baccalaureate engineering programs anywhere in the United States or abroad and have the tools and background necessary to earn their bachelor's degree or higher.

Engineering Program Goals:

- Continue upgrading and remodeling the Engineering Laboratory and support spaces.
- Improve recruitment of students from local, state and regional high schools.
- Assess retention and graduation rates and implement changes to improve both.
- Continue working closely with the University of Wyoming and other four-year programs to develop transfer programs.

The Casper College Engineering Department provides a solid basis in engineering principles so that students may pursue further study in a variety of fields of engineering: Chemical, Petroleum, Civil, etc. These graduates are in high demand throughout Wyoming and the nation.

Additional Narrative:

Student Learning Outcomes

When a student completes the engineering program they will have the ability to:

1. Apply knowledge of mathematics, science, and engineering
2. Design and conduct experiments, as well as analyze and interpret data
3. Function on teams
4. Identify, formulate, and solve engineering problems
5. Acquire, apply, and synthesize knowledge
6. Effectively communicate what they have learned in oral and written formats
7. Recognize the need for and gain an ability for lifelong learning
8. Use the techniques, skills, and modern engineering tools necessary for engineering practice
9. Do basic researching to find information necessary to make educated decisions.

Department Strengths

- Qualified faculty devoted to providing students with a general background in engineering principles regardless of which specialty they will ultimately pursue
- Memberships in and partnerships with national engineering societies and organizations
- Support for facilities improvement and scholarship opportunities through the Gawthrop Fund in the Casper College Foundation.

Based on the program review and assessment data collected during 2013-14, the program plans to:

- Continue to build a library of resources, both print and electronic, for students to use to research and study engineering
- Work with the Financial Aid office to develop a scholarship program that will assist with recruiting and retaining students in the engineering program
- Work with other departments across campus to ensure that students have adequate preparation in mathematics and other areas.

**Name of program: Fire Science**

CIP Code(s) (six digits): 43.0203

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-2014}

Credential(s) awarded: A.A.S Fire Science Technology, Certificate in Fire Science Technology

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

- III. Department/Program Vision, Mission, Philosophy and Description
- L. Vision Statement

The vision of the Fire Science program is to bring our students into the 21st century through innovation and modern technology. The program will continue to invest in the most updated equipment/technology that will allow us to continue to educate and train the students to the fire service high standards.

M. Mission Statement

With the mission of student success, the Fire Science program will prepare students for a career in the fire service by providing the students with educational opportunities in the area of academics and an overview of the field of firefighting, through lectures and practical exercises in all skill levels pertinent to emergency services.

N. Teaching Philosophy and Pedagogy

1. Teaching Philosophy & Pedagogy

The philosophy of the Fire Science program is to provide students with the most current education of the fire service, using the best available instructors, which will assist the student with gaining a career in the fire service.

2. Digital Learning Philosophy

The philosophy of digital learning starts with the distance education program, which is to provide career firefighters throughout the United States, who cannot take courses on campus, the opportunity to further their knowledge of subjects within the fire service and complete a degree in Fire Science. Digital learning assists the firefighters with the promotional process of their department. Digital learning has also become more common in the classroom. Digital learning should meet the same high standards as our traditional face-to-face classes.

3. Concurrent Enrollment Philosophy

It is the philosophy of this department that well-articulated concurrent enrollment courses offer an excellent opportunity for qualified high school students who are interested in fire services careers.

O. Articulation Agreements

An articulation agreement occur with Kelly Walsh High School.

Advisory Board Committee

The advisory board for the Fire Science Program meets annually in the spring and membership includes a diverse cross-section of community members in the fire science fields. These members provide opportunities for students and knowledge and expertise to faculty regarding the fire profession in addition to occasional equipment needs of the program.

**Name of program: Radiography**

CIP Code(s) (six digits): 51.099

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-2014}

Credential(s) awarded: A.S. Radiography

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Vision Statement: By maintaining national accreditation, the radiography program will prepare students to meet the demands of the profession.

Mission Statement: The A.S. Radiography degree at Casper College provides education to produce competent medical radiographers eligible for immediate employment or advanced education, by offering high quality educational and clinical experiences.

Teaching Philosophy & Pedagogy: As educators in a professional health science field, we foster not only the relevant knowledge students' need to become highly qualified individuals in the field but also to develop the attitudes, values and critical thinking skills necessary to provide quality care to patients.

Specialized Accreditation: Casper College's Radiography Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Departmental Advisory Committee: The advisory board for the Radiography Program meets annually in the fall semester and membership includes a diverse cross-section of the professional community agencies that provide clinical opportunities for the department's students.

Assessment Data: After review of the general education outcomes assessment, the radiography faculty has determined that writing skills are an area we would like to emphasize; specifically proper citation and awareness of plagiarizing. After review of the program-level assessments, the radiography faculty formulates a plan to address six areas: (a) evaluate use of shielding in clinical settings (b) utilize the new clinical database on Moodle to analyze data more effectively (c) emphasis on patient assessment in a simulation center (d) assess students in the five registry content areas with a mid-curricular exam (e) make image critique and evaluation more appropriate for digital images (f) continue to monitor communication skills via employer surveys (survey indicated improvement from previous years)

### **Name of program: Theatre Program**

CIPs 50.0502  
50.0506  
50.0509

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credentials awarded:

- Associate of Arts in Theatre Performance
- Associate of Arts in Theatre Technology
- Associate of Arts in Musical Theatre Performance

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

*It is the mission of the Casper College Department of Theatre to:*

- *Provide the first two years of baccalaureate coursework and production opportunities for the theatre major who subsequently graduates and matriculates to a four-year program*
- *Provide cultural and artistic resources and opportunities to the general student body*
- *Stimulate audiences and be prominent in the intellectual and cultural life of the community*

The theatre unit has long been an integral part of campus and community life. It has grown to meet the demands of students, and continues to be successful in producing outstanding graduates. The department enjoys excellent, well-equipped facilities, and considers the mainstage and blackbox spaces as laboratories for its students.

Additional Narrative:

Casper College is the only institution in Wyoming that is a fully accredited institutional member of the National Association of Schools of Theatre (NAST) [www.arts-accredit.org]. As such, the degree programs are subjected to regular, rigorous standards reviews that include purposes, operations, curricular requirements, and mechanisms for peer evaluation and improvement. In an isolated region, Casper College values accreditation that ensures students an arts education equal to the first two years of a baccalaureate. The on-site NAST visit occurred in 2010. As a result, the Commission on Accreditation granted renewal of institutional membership, and scheduled the next on-site review for 2020. In the meantime, the Theatre Program Director is responsible for attending the annual accreditation meetings to keep current of changing standards.

**Name of program: Welding Technology**

CIP Code(s) (six digits): 48.0508

Date this report is presented to the WCCC: October 2014

Academic year review was done: {2013-1014}

Credential(s) awarded: A.A.S. Welding and Certificate in Welding

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Department/Program Vision, Mission, Philosophy and Description

P. Vision Statement

To provide relevant and appropriate skill training in the Welding Technology field.

Q. Mission Statement

To provide education, training, and practical skill development that promotes lifelong learning and insures student success in today's workforce.

Teaching Philosophy & Pedagogy

4. The teaching philosophy of the Welding Technology Department is to develop a relationship with students through demonstration of instructor expertise and concern for student learning. Class sizes are limited to 16 students, with two full time instructors and one adjunct instructor interacting with the students in many different classes.
5. Digital Learning Philosophy  
The welding program would like to obtain some virtual welders, but digital learning is not used in welding at this time.
6. Dual Enrollment Philosophy
  - a. The Welding Technology Department encourages dual enrollment, however at this time BOCES is a better option as we can ensure industry and professional standards are being met in this career program (all Casper college instructors CWI/CWE certified). In past articulation agreements with local High Schools standards were not met at the high school level. Students taking classes from Casper College instructors insures adherence to national standards. This provides students at both high school and collegiate levels the opportunity to earn credits in many related technical programs offered at Casper College.

#### Advisory Committee

The welding advisory board meets annually in the spring. Board members are from industry areas that require welding and the purpose of the advisory board is to ensure our degree programs and certificates meet industry standards and are relevant to the industry.

#### Special Events or Activities

- Welding club projects:
- Community service - Fabricated a Bar B Q trailer for a local Lutheran Church
- Rebuilt two trailers as a team building exercise
- Held a raffle for welding gear as a fund raiser
- Currently fabricating a sand rail to auction off as a fund raiser

### **Name of Program: Women's and Gender Studies Program**

CIP 05.0207

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credentials awarded:

- Associate of Arts in Women's and Gender Studies
- Certificate in Women's and Gender Studies

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

*The Women's and Gender Studies Department is an interdisciplinary community of faculty committed to a transformative analysis of gender as it intersects class, race, ethnicity, sexuality, age, nationality, and transnationality. Women's and Gender Studies courses provide an academic forum for the study of these intersections within historical, economic, political, social, and cultural contexts.*

The Women's and Gender Studies Department has met regularly to articulate with the University of Wyoming since 1990. All courses are transferable to the University of Wyoming, and many fulfill graduation requirements for Casper College associate degrees. Faculty use a variety of disciplines to examine these interactions, including cultural and arts studies, history, and social, economic, and political studies. The knowledge is relevant to students in many fields of study, from the arts and literature to counseling, law, business, medicine, and education. The program challenges oppression and stereotypes while fostering students' dignity and worth and encouraging students to be responsible, productive, healthy and successful individuals. The curriculum promotes cultural understanding and appreciation of the arts while investigating the systems that shape gender and women's lives and seeks to develop an appreciation of women's contributions. The department expands knowledge and learning and promotes academic achievement, balancing the wisdom of the past with the needs of the present and the challenges of the future. Finally, the department encourages and makes relevant student involvement and critical thinking.

Additional Narrative:

As a result of the changes in Casper College's general education program, the department has strived to meet and document six of the eight general education outcomes. In this respect, the department is instrumental to the greater mission of the college, while fulfilling its own mission of "providing an academic forum" that explores historical and current gender-related issues.

---

## *Central Wyoming College*

---

**Name of program: Accounting**

CIP Code(s) (six digits): 52.0301 & 52.0302

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS, AAS, CERT

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The CWC Accounting program articulates with the College of Business at the University of Wyoming in order to provide a seamless transfer for students seeking a baccalaureate degree and thus meet the requirements to sit for the Wyoming CPA exam upon completion of the UW requirements. The Accounting program has also articulated transfer agreements with other four-year institutions in neighboring states, but the curriculum is driven by the UW program.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning.

The program is now participating in a new assessment effort to map CWC student attributes and the *Lumina Degree Qualifications Profile 2* to the program, course, and objective levels.

#### Additional Narrative

- CWC has a Business Advisory Committee which provides input to the Accounting program. This committee meets at least once and often twice each academic year. The Applied Career Accounting Degree and Certificate was developed to meet the needs of local and regional employers in order to train and update employees as well as provide career paths for local students seeking the applied path to a career in accounting.
- The program is currently staffed with one full-time Masters prepared faculty member who offers courses in traditional lecture, online, and hybrid delivery modes.
- The enrollee success rate for students in program courses is generally at or above the institutional average for each term with a 7 year rate ESR rate of 76%. Course sizes are generally limited to 30 students. There is room for growth in program majors.

#### **Name of program: Biological Science**

CIP Code(s) (six digits): 26.0101

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2011-12

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Biological Science program contributes to all transfer degrees by offering courses which meet the Laboratory Biological Science requirement. It also provides the anatomy, physiology, and microbiology courses required in our Nursing program. Biological Science majors participate in West Nile Virus Undergraduate Research projects through the INBRE program.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education

requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, Biological Science is also a program that was successful in reducing the number of credits required to 60.

The program is now participating in a new assessment effort to map CWC student attributes and the *Lumina Degree Qualifications Profile 2* to the program, course, and objective levels.

Additional Narrative:

- The completion of the Health and Science Center has provided exceptional laboratory spaces and has provided the opportunity to offer more course options. With the expansion of Health Care options, the demand for biology courses is increasing.
- The program is currently staffed by three Masters prepared full-time faculty with the assistance of qualified lab assistants.
- Courses are taught in both lecture and hybrid delivery modes. All courses require an online component. While lecture courses may have 80 students, labs are limited to 24.
- The enrollee success rate for students in BIOL courses is generally near the institutional average for each term with a 7 year rate ESR rate of 75%.

**Name of program: Construction Trades/Facilities Maintenance**

CIP Code(s) (six digits): 46.0201 & 46.0401

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2011

Credential(s) awarded: AAS, CERT, and CERTII

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Construction Trades and Facilities Maintenance programs are designed to meet the needs of local employers within our service area and to meet the educational needs of students seeking skills in these Trades areas.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, Construction Trades and Facilities Maintenance are programs that were also successful in reducing the number of credits required to 60 and 61.5, respectfully.

Additional Narrative:

- CWC has an Advisory Committee which provides input to these programs. This committee meets as needed related to grant program requests and offerings at least once and often twice each academic year. The degrees and certificates were developed to meet the needs of local and regional employers in order to train and update

employees and to provide hands on skill based programs for students seeking entry level position in these fields.

- The Sinks Canyon Center has provided opportunities to offer more course options. Partnerships with grant programs and reservations schools have also provided unique and valuable training opportunities.
- The program is currently staffed by professional staff certified in these applied areas.
- Courses are taught in lecture/lab format with extensive hands on activity. Cohorts are generally 10 students with a maximum capacity of 20.
- The enrollee success rate for students in CNTK and FMT courses is higher than the institutional average for each term with a 7 year rate ESR rate of 82%. This higher rate is often attributed to the cohort effect.

### **Name of program: Criminal Justice and Homeland Security**

CIP Code(s) (six digits): 43.0103 & 43.9999

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2012-13

Credential(s) awarded: AA, AAS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Criminal Justice and Homeland Security programs work closely with local, regional, and federal law enforcement agencies to provide programs to meet the needs of their workforces. CWC was fortunate to receive a federal appropriation to create a Rural Justice Training Center which includes simulation technology and a mobile training lab. A partnership with the Bureau of Indian Affairs provided the necessary training to increase the number of officers serving the Wind River Reservation.

The programs participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, Criminal Justice and Homeland Security are programs that were also successful in reducing the number of credits required to 61 and 60, respectfully.

The Criminal Justice Program participated in the Higher Learning Commission Pioneer cohort to evaluate the *Lumina Degree Qualification Profile 1* in which it mapped program outcomes to CWC student attributes and the DQP. Both programs are now participating in a new assessment effort to map CWC student attributes and the *Lumina Degree Qualifications Profile 2* to the program, course, and objective levels.

Additional Narrative:

- CWC has an Advisory Committee which provides input to these programs. This committee meets at least once and often twice each academic year in order to determine local training needs for law enforcement through the Rural Justice Training Center.
- The program is currently staffed by two Doctoral level faculty and certified adjunct instructors are used when appropriate.
- Courses are taught in lecture, online, and hybrid formats. Courses are generally capped at 30 students with upper level courses having an average enrollment of 15 or less.
- The enrollee success rate for students in CRMJ and HSEC courses is higher than the institutional average for each term with a 7 year rate ESR rate of 81%. The higher rate is attributed to the high number of continuing education training for current law enforcement.

**Name of program: Equine Studies & Farrier**

CIP Code(s) (six digits): 1.0507 & 1.0599

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS, AAS, CERT, CERT II

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Equine Science (Horse Science, Horse Management, and Farrier) programs reflect the needs of the local agriculture and western lifestyle. While the program draws students from all over the world, it was and is designed to provide the skills necessary to be successful in the Horse industry. This program is tied very closely to the local community and its facility is in use most evening and weekends when formal classes and rodeo practice is not being held.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, the programs were also successful in reducing the number of credits required to 61.

There is additional demand for these programs but capacity is capped in the present facility. An Equine facility has been listed as a top priority for CWC for the last few years, but has not received adequate ratings under the current system.

Additional Narrative:

- CWC has an Advisory Committee which provides input to these programs. This committee meets at least once each academic year in order to review changes in the industry and determine if curricular changes are warranted.
- The program is currently staffed by two certified Bachelor level faculty and certified adjunct instructors are used when appropriate.
- Courses are taught in lecture/lab format. Courses are generally capped at 15 students.
- The enrollee success rate for students in EQST courses approximates the institutional average for each term with a 7 year rate ESR rate of 76%.

**Name of program: Outdoor Education and Outdoor Recreation**

CIP Code(s) (six digits): 31.0304 & 31.0101

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2012-13

Credential(s) awarded: AA, AAS, and CERT II

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Outdoor Education and Recreation programs prepare students to: lead others and effectively manage risks in a variety of outdoor settings and activities, teach effectively using learning styles appropriate to the individual student and the outdoor setting, explain experiential learning theory and how it applies to outdoor, environmental, and adventure education, facilitate group and individual development in students of all ages, and describe the history of outdoor recreation on public lands in the US. This program works closely with the National Outdoor Leadership School in coordinating students in both programs.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, the programs were also successful in reducing the number of credits required to 60.

Students in the Outdoor Education programs are now able to live at the Sinks Canyon Center during the second of their program, thus maintaining a successful and desired cohort model.

Additional Narrative:

- CWC has an Advisory Committee which provides input to these programs. This committee meets at least once each academic year in order to review changes in outdoor education and leadership and to determine if curricular changes are warranted.
- The program is currently staffed by one certified Master level faculty and certified adjunct instructors are used when appropriate.

- Courses are taught in lecture/lab, online, and hybrid formats. Courses are generally capped at 15 students. Some courses require a limit of eight students.
- The enrollee success rate for students in Outdoor Education courses meet or exceed the institutional average for each term with a 7 year rate ESR rate of 79%.

**Name of program: Physical Science**

CIP Code(s) (six digits): 40.0101

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2011-12

Credential(s) awarded: AS

Program’s role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Physical Science program contributes to all transfer degrees by offering courses which meet the Laboratory Science requirement. It also provides courses required in Environmental Science and EHS programs. Physical Science majors participate in Undergraduate Research projects through the INBRE program.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning.

The program is now participating in a new assessment effort to map CWC student attributes and the *Lumina Degree Qualifications Profile 2* to the program, course, and objective levels.

Additional Narrative:

- The completion of the Health and Science Center has provided exceptional laboratory spaces and has provided the opportunity to offer more course options. With the adoption of a STEM meta-major students are more likely to choose Physical Science as a degree path.
- The program is currently staffed by one Masters prepared and one Doctoral prepared full-time faculty with the assistance of qualified lab assistants.
- Courses are taught in lecture, online, and hybrid delivery modes. While lecture courses may have 80 students, labs are limited to 24.
- The enrollee success rate for students in Physical Science courses is significantly higher than the institutional average for each term with a 7 year rate ESR rate of 84%. This is attributed to the high level prerequisite math courses.

**Name of program: Theater**

CIP Code(s) (six digits): 50.0501, 50.0502, 50.0506

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2011-12

Credential(s) awarded: AA

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The CWC Theatre Program is designed to pass on established theatrical traditions and ethics, develop aesthetic appreciation, train actors and technicians in the theory and practice of theatre arts, prepare students for further studies at UW or another four-year college or university, provide an outlet for creative community involvement, entertain, educate, and elevate the community by producing a broad range of high quality theatre experiences, promote theatre as an art form and provide insights into the human condition.

The program participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, the programs were also successful in reducing the number of credits required to 60.5.

Additional Narrative:

- The program is currently staffed by two Masters prepared and full-time faculty.
- Courses are taught in the traditional Theater lecture/lab delivery mode. Courses rarely have more than 15 students.

**Name of program: Welding**

CIP Code(s) (six digits): 48.0508

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2011-12

Credential(s) awarded: AAS, CERT, and CERT II

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Welding programs work closely with local and regional employers to provide programs to meet the needs of their workforce. Due to high employment rates, many students are hired prior to completing the courses and programs.

The programs participated in the campus-wide review and revision of general education requirements which concluded with the conversion of a Diversity General Education requirement into a Student Attribute which is now required across all general education

courses. Additional general education requirements were added for Financial Literacy and Co-Curricular Learning. In 2013-14, the Welding program was successful in reducing the number of credits required to 61.

Welding is now participating in a new assessment effort to map CWC student attributes and the *Lumina Degree Qualifications Profile 2* to the program, course, and objective levels.

In 2013, the Welding classroom and lab were updated and expanded increasing the capacity of the program.

Additional Narrative:

- CWC has an Advisory Committee which provides input to these programs. This committee meets at least once and often twice each academic year in order to determine local training needs and program outcomes. Many committee members are constantly working or traveling, so meetings are often conducted through an email discussion format to provide all members an opportunity to participate at a time convenient to them.
- The program is currently staffed by one certified faculty, a certified lab staff member, and certified adjunct instructors are used when appropriate.
- Courses are taught in a traditional lecture/lab format. Courses are generally capped at 25 students with upper level courses having an average enrollment of 15 or less.
- The enrollee success rate for students in Welding courses is lower than the institutional average for each term with a 7 year rate ESR rate of 71%. The lower rate is attributed to a combination of students being hired before courses are complete and to students in the vocational area being less prepared for college level courses. Thus there is a higher risk of not completing.

---

## *Eastern Wyoming College*

---

### **Name of program: Criminal Justice (all)**

CIP Code (six digits): 43.0113, 43.0104, 43.0103, 43.0107

Academic year this report is made: 2013-2014

Academic year review was done: 2012-2013

Credential(s) awarded: Associate of Arts—Law Enforcement Emphasis, Associate of Arts—Correction Emphasis, Associate of Applied Science, Corrections Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Criminal Justice program areas have a five-year average of 71 program majors each year, and of those, 7 graduate each year. Many of the majors are also working professionals who

may be attending school on a part-time basis. The FTE in the last five years averaged 53.5. These programs address very specific workforce needs as well as transfer to receiving institutions including Chadron State College and the University Wyoming. EWC has three Department of Correction sites in the service area including the Wyoming Medium Corrections Institution in Torrington, Wyoming Women's Center in Lusk, and the Honor and Conservation Camps in Newcastle. Many of our students and graduates work in one of these facilities. On the law enforcement side, EWC has a strong partnership with the Wyoming Law Enforcement Academy which allows students to earn credits that can count towards a complete degree program.

The Criminal Justice program has excellent program faculty members with extensive experience in the field. Both of the full-time faculty members are highly involved in community activities and are invited to be resource speakers for a number of statewide entities and conferences. The program has an industry advisory committee which provides valuable insight into workforce demands and trends. Practicums or internships are a regular part of the curriculum for the certificate and the associate of applied science program. The curriculum has been recently reviewed with recommendations for strengthening and revising the associate of applied science program. The student/faculty ratio averages 11.1:1. Resources are adequate and are often supplemented by Perkins career and technical education grant dollars. The complete associate of arts program is available to students via distance education. This entire program area is one we expect to continue to grow as it meets statewide workforce training needs and provides a career pathway that is rewarding both financially and professionally. A stronger and more visible marketing campaign has been developed during the last year.

**Name of program: Economics**

CIP Code (six digits): 45.0601

Academic year this report is made: 2013-2014

Academic year review was done: 2013-2014

Credential(s) awarded: Associate of Science—Economics

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Economics program has a five-year average of only 1 program major each year; however, the program is considered a part of the Business Cluster which averages 85 majors each year. The primary role of the Economics department is that of a support one for many of the business majors and others who desire to pick up an economics course as fulfillment of the general education requirement of a social science. The FTE in the last five years averaged 12.2. The entire department offers just two classes at the community college level—Macro Economics and Micro Economics.

The Economics department has a well-qualified program faculty member with more than 40 years of teaching experience. The classes are taught both on-campus and via distance

education. The courses are not taught concurrently for the most part; however, high school students may enroll via dual enrollment in the online sections. The student/faculty ratio averages 17.0:1. Resources and facilities are adequate. It continues to be a valuable part of the business administration programs and also helps meet a general education program category.

**Name of program: Science Cluster (Biology, Environmental Science, Wildlife and Fisheries Biology and Management)**

CIP Code (six digits): 26.0101, 26.1305, 03.0601

Academic year this report is made: 2013-2014

Academic year review was done: 2012-2013

Credential(s) awarded: Associate of Science—Biology, Environmental Science, Wildlife and Fisheries Biology and Management

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Sciences program cluster has a five-year average of 9 program majors each year and of those only 1-2 graduate each year. However, in the 2012-2013 program year, we saw this number climb to 16, clearly an upward trend. An analysis of the majors shows that many students change to the Interdisciplinary Studies program major although they retain their emphasis in science. More importantly, it provides general education courses to most of the transfer majors at the college by fulfilling the laboratory science requirement. The FTE in the last five years averaged 122.4.

The classes taught in this cluster transfer well to our primary receiving institutions including the University of Wyoming and Chadron State College. The general biology class is frequently taught at our partnering high schools throughout our service area as a concurrent enrollment offering. The number of students who major in these program areas are quite small. Therefore, this is an area that the division chair and faculty members are reviewing to revise the program offerings and create a meta-major instead of individual programs. The program faculty are highly qualified holding at least master's degrees in the discipline areas. Although we only have two full-time instructors in this area, numerous adjuncts teach at the high schools and outreach centers—bringing the Faculty FTE to 6.6 for the five-year average. The student/faculty ratio averages 14.9:1. Resources are adequate at all sites. At Torrington, the biology laboratories and classrooms were recently remodeled in 2010. The new Douglas campus will also boast a similar modern laboratory and classroom. Most of the concurrent and outreach site classes are taught at the partnering high schools which also have adequate facilities. Additionally, Biology 1010 is offered as a distance education course on a regular basis.

**Name of program: Veterinary Technology**

CIP Code (six digits):51.0808

Academic year this report is made: 2013-2014

Academic year review was done: 2010-2011

Credential(s) awarded: Associate of Applied Science, Certificate (one-year)

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Veterinary Technology program at Eastern Wyoming College is the only such program in the state and is accredited by the AVMA. The program has excellent enrollment, averaging 85 students each year over a five-year period. However, in 2012-2013, the enrollment grew to 104. The number of graduates has averaged 15, and of those students, the pass rate on the nationally recognized Veterinary Technology National Exam (VTNE) is high. Students who major in Vet Tech come from not only Wyoming but a larger geographic area than most of our other students; in particular, South Dakota, Nebraska, Colorado, and Montana.

A new one-year certificate program was added to the department effective with the 2013-2014 academic year. This action was to address a workforce need for animal care providers that the advisory council and practicum cooperating sponsors recommended. Data is not in on this new program yet; but anecdotally, the program seems to provide a career pathway for students who may not be as academically gifted as others. In fact, the Vet Tech Associate of Applied Science program's curriculum is extremely rigorous, in part because of the need to meet the AVMA guidelines for accreditation. Faculty are well qualified and include veterinarians as well as certified veterinary technicians (CVTs) who also possess bachelor's degrees in animal science. The full program review of this program was due in 2013-2014; however, because of the addition of the new certificate program and a number of programmatic changes, the decision was made to postpone the full review until 2014-2015. The Vet Tech program sponsors a Vet Tech Student Club which is very active and provides the primary help for athletic concessions among other activities. Monies raised help defer travel expenses for students (usually sophomores) to travel to the National Vet Tech Conference and other professional development opportunities. None of the Vet Tech classes are offered via distance at this point. This is something that has been discussed but not thoroughly researched. Resources and facilities are adequate. The supply budget was significantly increased a year ago and several minor modifications and repairs were made to the facilities as a result of a USDA inspection visit. The student to faculty ratio is 19.4:1. The Vet Tech program continues to be a flagship program for EWC.

### **Name of program: Welding & Joining Technology, Machine Tooling**

CIP Code (six digits):48.0508, 48.0503

Academic year this report is made: 2013-2014

Academic year review was done: 2012-2013

Credential(s) awarded: Associate of Applied Science, Certificates

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Welding and Joining program at Eastern Wyoming College has seen tremendous growth in the last ten years. The five-year average is 122; however, in 2012-2013, enrollment climbed to 150. The FTE averages about 250 per year. The program offers an Associate of Applied Science,

along with a one-year certificate, and a Plate Welding short-term certificate. Additionally, a Machine Tooling Certificate is available and sometimes students spend an extra year at the college to add this bonafide workforce endorsement. Graduates have averaged 46 per year in the last five years. Some of these graduate numbers are duplicated since students often earn a certificate first and then go on to complete the associate of applied science program. Employment projections for welders in Wyoming and surrounding areas continue to outpace the national average. At the most recent annual job fair, more than 20 welding employers attended looking for skilled students.

EWC is an American Welding Society (AWS) certified weld test center. Students along with industry employees often avail themselves of this opportunity. The expansion of the partnership with the Department of Corrections has seen a significant amount of students enroll in the Plate Welding certificate program. DOC instructors report back to us that the inmates report good job success upon release. Concurrent enrollment in welding is available at many of our partnering high schools. EWC has an active Skills USA student club in which students have excelled at state, regional, and national competitions. The faculty members are highly qualified with most of them holding numerous endorsements including Certified Welding Instructor, Inspector, and other certifications. The supply budget is strained every year as the price of metal and welding rod continues to increase. A virtual welder was added to the program a year ago and is used primarily as a method to provide extra practice time for students who may be struggling. The program emphasizes strong fundamentals in maintenance welding and machine shop. The student to faculty ratio is 12.1:1. The Welding program at Torrington is located in the Mechanical Arts building which is going to be replaced by the new Career and Technical Education Center (CTEC) with an expected completion date of 2016. Welding, another of our signature programs continues to draw students to EWC.

---

## *Laramie County Community College*

---

During the 2013-14 academic year, Laramie County Community College worked to develop a new program assessment and review process. The new process will allow the college to assess academic programs in a more meaningful way that will translate into better services for our students. Because of the restructuring of the program review process and the revision of the large majority of our academic programs, Laramie County Community college did not perform program reviews during the 2013-2014 academic year. However, LCCC has developed a comprehensive program review list for the 2014-2015 academic year. The programs in this list will be evaluated using the LCCC new academic review program model and the results of this evaluation will be submitted to the commission at the end of the review cycle. We are convinced that the opportunity we have given our faculty to work in the new program review model will produce excellent results during the 2014-2015 academic year.

---

# Northwest College

---

**Name of program: Accounting (also includes Business Administration)**

CIP Code(s) (six digits): 52.0201, 52.0301

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Associate of Science –Accounting/Business Administration degree at Northwest College is designed to prepare students for transfer into the Business Degree program of their choice at any University as juniors.

**Name of program: Administrative Assistant**

CIP Code(s) (six digits): 52.0401

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AAS, Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Associate of Applied Science – Business degree curriculum at Northwest College is designed to prepare students for entry-level positions in business. It emphasizes writing, speaking and problem solving skills and provides students with general education and business coursework favored by many employers. Students completing this program should have the basic skill needed to enhance the entrepreneurial spirit. The Associate of Applied Science – Business degree is conferred upon completion of this Program of study.

**Name of program: Biology (also includes Natural Resource Biology and Pre-Professional Sciences)**

CIP Code(s) (six digits): 03.0201, 26.0101, 51.1103, 51.1199

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Biology Department offers courses and programs that lead to one of five Associate of Science degrees, each with a focus on a different academic or vocational specialty. Seven academic majors support these five degree options. The department offers one Biology Associate that emphasizes a broad survey of the field, one Natural Resources Biology Associate that emphasizes field biology in the plant and animal sciences, and five Associate degrees in health-related fields. These health related Associates are Pre-Occupational Therapy and Pre-Physical Therapy, Pre-Optometry, Pre-Pharmacy, and Pre-Professional Sciences that support students interested in Pre-Dentistry, Pre-Medicine, and Pre-Veterinary Medicine.

**Name of program: Chemistry**

CIP Code(s) (six digits): 40.0501

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

This specialization emphasizes the traditional areas of chemistry at the freshman and sophomore level. It provides basic education in chemistry with sufficient flexibility to allow students to transfer to a variety of four-year schools offering bachelor's degrees in chemistry and related fields.

**Name of program: Criminal Justice**

CIP Code(s) (six digits): 43.0103

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AA

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

In August of 2009, Northwest College began offering an Associate of Arts degree in Criminal Justice with courses covering various aspects of the criminal justice system. The Criminal Justice Program prepares students for careers in criminal justice or related professions and/or the preparation of students for continued education at a four year institution. The criminal justice curriculum provides students with the opportunity and assistance to acquire knowledge of the roles and challenges faced by police, courts, and corrections and their interrelationship within our justice system. Criminal justice required courses are designed to facilitate these opportunities.

**Name of program: Drafting**

CIP Code(s) (six digits): 15.1302

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AAS, Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Drafting is required for the design, development, manufacturing and construction of most products. Drafters translate data and sketches from engineers, architects and scientists into detailed drawings that are used in manufacturing and construction. The Drafting Technology program at Northwest College provides students with a comprehensive education that focuses on the correct use of state-of-the-art Computer Aided Design and Drafting (CADD) software. Coursework covers basic through advanced two-dimensional (2-D) and three-dimensional (3-D) CADD applications, through the effective use of individualized educational techniques. Students are exposed to a variety of drafting fields, including mechanical, architectural, structural, and civil drafting technology. Current drafting and related industry standards and techniques are covered in detail, in addition to building applicable work habits, logic and skills.

**Name of program: Engineering**

CIP Code(s) (six digits): 14.0101

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Associate of Science with a specialization in Engineering degree is a two-year transfer degree built on general education and the foundations of engineering: math, physics, chemistry, and engineering science. Northwest's program is designed to transfer to many four-year universities and engineering colleges, where students specialize in the field of engineering of their choice.

We maintain articulation agreements with several engineering colleges and universities, and we require a consistently high level of achievement for our students to ensure that they are ready to tackle the difficult engineering curriculum at four-year colleges and are prepared to enter as juniors with no loss of credit or deficit of skill.

**Name of program: Equine Studies (includes Equine Business Management, Equine Riding and Training, and Farrier programs)**

CIP Code(s) (six digits): 01.0507

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AAS, Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Equine Studies program provides strong, two-year training, resulting in an Associate of Applied Science degree. Students who desire a Baccalaureate degree in equine fields will also acquire an academic base that will allow them to transfer to and be competitive at other institutions.

The equine industry currently generates over five billion dollars a year in revenues. It is the fifth leading industry in the U.S. The equine business management option gives students a background in equine management with an emphasis on business management and professional skills. Students will have a working knowledge of the horse, the equine business, and management skills as applied to various aspects of the industry.

**Name of program: Welding Technology**

CIP Code(s) (six digits): 48.0508

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-14

Credential(s) awarded: AAS, Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Welding Technology program is designed to offer the student a solid background in the latest techniques, procedures, and processes in welding. Students are encouraged to complete the two-year program, although several certificate options are available. The Welding department also offers after-hours, independent study opportunities to community residents seeking to upgrade their skills.

Northwest College offers a two-year degree program, a one-year certificate, and two 27-credit certificates. Students experience hands-on training in the welding field; because of the professional development of the student, he or she is prepared to enter the welding workforce upon graduation.

---

# Northern Wyoming Community College District

---

**Name of program: Criminal Justice**

CIP Code(s) (six digits): 43.0104

Date this report is presented to the WCCC: September 2014

Academic year review was done: This program has not yet cycled through the Program Review five-year process.

Credential(s) awarded: AA, AS, AAS, Certificate of Completion

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Criminal Justice Program serves in-service criminal justice practitioners, students who desire immediate employment after graduation, and students who plan to transfer to a baccalaureate program. The curriculum allows students to focus their studies in options such as crime scene investigation, corrections, security, victim advocacy, and/or law enforcement. As well, it serves practicing officers in expanding their knowledge beyond their POST certification and specializing in areas to best serve their communities. The AA and AS programs of study provide students with a strong foundation for continuing their studies in Criminal Justice or related fields. The program uniquely benefits from close working relationships with local law enforcement agencies. Many of the students are working adults, attending college part time, and many also pursue multiple program options.

The purpose of the program comports with the Wyoming Community College Commission's Strategic Plan objective to provide an educated citizenry. Offering local in-service criminal justice practitioners the opportunity to further their studies is central to the mission of NWCCD, and is recognized to have a positive economic impact. It is in this way that the Criminal Justice Program ties to the community and to the development of community educational leadership.

**Name of program: Theater**

CIP Code(s) (six digits): 50.0501

Date this report is presented to the WCCC: September 2014

Academic year review was done: This program has not yet cycled through the Program Review five-year process.

Credential(s) awarded: AA

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Program affords foundational training in theater disciplines. Students completing an Associate of Arts degree in this program may choose to use their training in local jobs, productions and community service, or may choose to transfer to a baccalaureate program to prepare for work in the areas of entertainment, education, theatrical direction, design, industry, and commerce. The strength of the program resides in the breadth of experience represented by the faculty members as professional artists, with years of professional acting and directing, thus increasing the program's visibility and credibility. The Theater Program also provides learning opportunities in theater for all Sheridan College students through general education curriculum options, and offers advanced studies for local high school students.

The focus and purpose of the Theater Program align with the Wyoming Community College Commission's Strategic Plan objective of providing an educated citizenry, and serves a local community that cherishes its love of the arts. Offering cultural enrichment through the presentation of work created by both students and faculty is central to the mission of the College, and is recognized to have a positive impact in a creative economy. The program uniquely benefits from the artistic energy of several local foundations and community theater organizations such as the WYO Theater and the Civic Theater Guild. It is in this way that the Theater Program aligns with the community it serves and with the development of community educational leadership.

With additional faculty and facilities, the program has revitalized itself in the past few years and is building student support and enrollment.

**Name of program: Biology; Biotechnology**

CIP Code(s) (six digits): 26.0101; 261201

Date this report is presented to the WCCC: September 2014

Academic year review was done: 2009-2010

Credential(s) awarded: AS; Certificate of Completion

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Biology Program provides students a strong foundation in the sciences with an emphasis on the biological or life sciences. The primary goal of the program is to provide students with the background needed to transfer as juniors to a university into the specialty field of their choice. The program also provides foundation courses for other program areas, including health sciences, pre-professional, biotechnology, agriculture, and chemistry, and provides courses meeting the Life Science general education requirement for all students pursuing AA and AS degrees. A certificate program in biotechnology enhances the Biology Program and to serves local businesses. However, due to low enrollment, this program is being phased out.

The Biology Department has numerous strengths and a dedicated, professional faculty that provide for an optimal educational opportunity for biology majors. All faculty members are engaged in student-supported research partially funded by the INBRE partnership with the University of Wyoming. Last year the dean and two biology instructors participated in the NSF-funded PULSE initiative, offered to help biology programs develop comprehensive learning goals and assessment strategies. Although this work is still in progress, it provided a framework of expectations that allow faculty to communicate and develop assessment plans. The program outcomes for the Biology Associate of Science are: 1) acquire fundamental concepts in science and biology with the ability to synthesize information associated with ideas and hypothesis; 2) use critical thinking to make logical inferences and conclusions to interpret and analyze data, in order to evaluate scientific ideas and arguments; 3) communicate scientific knowledge by using a variety of modalities; 4) develop laboratory and field research skills; 5) apply investigative technologies; 6) correlate biological sciences associated with real world applications to potential career pathways.

The science facilities at Sheridan College will be remodeled this next year supported by state capital funds for the science and agriculture facility improvement.

**Name of program: Engineering**

CIP Code(s) (six digits): 14.0101

Date this report is presented to the WCCC: September 2014

Academic year review was done: 2008-2009

Credential(s) awarded: AS

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Engineering Program provides a curriculum for students to develop a broad background of analytical skills and task-specific application abilities. Students develop a foundation in mathematics and engineering science necessary for a specific specialization in an engineering field. Students successfully completing the program are prepared to transfer to a baccalaureate program to complete their studies. The Engineering Program is a versatile program that allows students to focus on the areas of civic, chemical or mechanical engineering. Our program articulates with the University of Wyoming, Montana Tech of the University of Montana, and South Dakota School of Mines.

The program outcomes for the Engineering Associate of Science are: 1) extract relevant information from real world problems for subsequent analysis; 2) use mathematics to gain insight to probable outcomes of technical problems; 3) solve problems in a methodical manner; 4) present documentation in a clear and concise manner; 5) evaluate appropriateness of problem solutions; 6) use accepted theories in science to solve technical problems.

Due to industry demand, we are in the process of developing a mining engineering option.

## **Name of program: Construction Technology; Carpentry Apprenticeship**

CIP Code(s) (six digits): 46.0415; 46.0499

Date this report is presented to the WCCC: September 2014

Academic year review was done: 2008-2009

Credential(s) awarded: AAS, Certificate of Completion; Certificate of Completion

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Construction Technology Program prepares graduates to function at an intermediate carpenter level. Its mission is to build construction skills to create a well-trained workforce through educational leadership. The program sets a standard of excellence by creating meaningful and engaging learning opportunities through innovative teaching and learning in classroom and application settings, attracting and supporting diversity and creativity in construction, establishing strong collaborative relationships with local and regional industry, and our communities, and developing construction leaders to maintain and enhance construction opportunities in the building industry. The program was developed to meet the need for skilled construction trades workers. Local contractors are the driving force behind the success of the program and many serve on the program's advisory board.

Our program uses the National Center for Construction Education and Research (NCCER), a nationally accredited curriculum. The curriculum has been reviewed by the program advisory committee, and is approved by the Federal Bureau of Apprenticeship Training. This allows certificate and AAS degree construction technology graduates the opportunity to advance to the appropriate level of a carpentry apprenticeship and earn their Federal Journeyman card, which is recognized across the United States. Students may stop after completing the certificate or continue into the AAS program, and may choose to add the apprenticeship.

The program has strong industry ties and partners with Habitat for Humanity for students to go into the field and apply their building skills on Habitat houses, thus giving back to the community. Program space is identified in college's master plan for Wyoming's first education facility in which houses can be constructed indoors and moved after completion.

Another partner, the Big Horn Home Builders Association, provides scholarships and tool voucher programs, and often hires our graduates. While employment in the construction industry is often cyclical, the employment rate of our graduates is consistently high.

The Carpentry Apprenticeship Program provides educational components for the Sheridan area state-approved Carpentry Apprenticeship that complements the 2000-hour-per-year, working component needed to meet the yearly requirements set by the Bureau of Apprenticeship and Training, Department of Labor, Cheyenne, Wyoming, for apprentices to become eligible to sit for the journeyman's exam.

**Name of program: Farrier Science**

CIP Code(s) (six digits): 01.0307

Date this report is presented to the WCCC: September 2014

Academic year review was done: This program has not yet cycled through the Program Review five-year process.

Credential(s) awarded: Certificate of Completion

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Farrier Science Program provides training in sound principles and applications of farrier science. Students develop knowledge and skills in the current techniques required to maintain horse hoof and leg health. A fundamental understanding of horse anatomy and physiology is applied throughout the program. Upon completion of the certificate, students are prepared as entry-level farriers and encouraged to complete the American Farrier Association's (AFA) Farrier Classification examination. Students complete the 18 credit certificate program during a single, intensive semester.

The Farrier Science program is in a geographic area with a rich horse culture. Qualified farriers are challenging to find, and this program helps fill the skills gap and expand the number of farriers available for horse owners. The program primarily serves students from Wyoming, Montana and South Dakota. Ranching, outfitting and resort businesses in the community provide horse shoeing and other hands-on learning activities. We have only offered the Farrier program for 2 ½ years and have not yet completed an internal program review. We work closely with the Agriculture Advisory Committee to provide current information on the program and seek feedback.

---

***Western Wyoming Community College***

---

**Name of program: Administrative Assistant**

CIP Code(s): 52.0401

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-2014

Credential(s) awarded: ONE YEAR ADMINISTRATIVE ASSISTANT CERTIFICATE

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The purpose of the Administrative Assistant certificate offered through the Office Information Systems department is to train students who wish to enter the job market in an office setting.

Relevant course work for students is developed and continually updated to provide a certificate program that is high quality as evidenced by employer evaluations, student evaluations, and advisory council input. The schedule is designed to offer a range of different delivery formats of courses such as: traditional classroom, “flexible time” courses taught in the OIS lab, full online courses as well as partial online courses. Course work includes: accounting, English composition and technical writing, keyboarding, records management, basic office skills, office procedures, and several courses that involve computer skills. This certificate serves students who are interested in working in an office and it also benefits students who are retraining or updating their skills.

**Name of program: Biology**

CIP Code(s): 26.0101

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-2014

Credential(s) awarded:

AS.BIOLOGY

AS.PRE-RANGELAND ECOLOGY

AS.PRE-FORESTRY

AS.PRE-WILDLIFE BIOLOGY

Program’s role and alignment with student, employer, service area, and/or State of Wyoming needs:

The natural science program's primary mission is to teach students biological science and chemistry and the process of scientific research in the life sciences. The department does this by providing lecture and laboratory courses that examine basic biological and chemical concepts, introduce students to the scope and limitations of the scientific approach, address how the life sciences influence and are influenced by contemporary society, and provide substantial involvement with the tools and processes of scientific investigations.

The natural science program fulfills its mission in three ways. The first is by providing courses that satisfy the lab science requirement for students receiving an associate’s degree at WWCC. Courses offered to fulfill this objective include: General Biology, General Chemistry, Current Issues in Biology, and Introductory Chemistry.

Secondly, the department provides a sequence of upper division courses for biology and chemistry majors and for pre-professional students (pre-med, pre-vet, pre-physical therapy, pre-occupational therapy, pre-pharmacy, pre-dentistry, pre-nursing) to enable them to transfer to four year programs as juniors. These courses also fulfill requirements for two-year professional programs such as nursing. Courses fulfilling this objective include: Anatomy and Physiology I and II, Animal Biology, Plant and Fungal Biology, General Ecology, Field Ecology, and Microbiology as well as other upper level chemistry courses.

Lastly, the program provides courses and programs in response to the interests of the community. Courses such as Birding, Wyoming Flora, Aquatic Invasive Species, and Science Research fulfill this need.

The program consists of seven and a half full-time faculty members in Rock Springs, along with several adjunct instructors. Faculty members strive to remain active and knowledgeable in the field. The department adjusts to the changing needs of the modern student by offering online courses.

**Name of program: Chemistry**

CIP Code(s): 40.0501

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-2014

Credential(s) awarded: AS.CHEMISTRY

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The natural science program's primary mission is to teach students biological science and chemistry and the process of scientific research in the life sciences. The department does this by providing lecture and laboratory courses that examine basic biological and chemical concepts, introduce students to the scope and limitations of the scientific approach, address how the life sciences influence and are influenced by contemporary society, and provide substantial involvement with the tools and processes of scientific investigations.

The natural science program fulfills its mission in three ways. The first is by providing courses that satisfy the lab science requirement for students receiving an associate's degree at WWCC. Courses offered to fulfill this objective include: General Biology, General Chemistry, Current Issues in Biology, and Introductory Chemistry.

Secondly, the department provides a sequence of upper division courses for biology and chemistry majors and for pre-professional students (pre-med, pre-vet, pre-physical therapy, pre-occupational therapy, pre-pharmacy, pre-dentistry, pre-nursing) to enable them to transfer to four year programs as juniors. These courses also fulfill requirements for two-year professional programs such as nursing. Courses fulfilling this objective include: Anatomy and Physiology I and II, Animal Biology, Plant and Fungal Biology, General Ecology, Field Ecology, and Microbiology as well as other upper level chemistry courses.

Lastly, the program provides courses and programs in response to the interests of the community. Courses such as Birding, Wyoming Flora, Aquatic Invasive Species, and Science Research fulfill this need.

The program consists of seven and a half full-time faculty members in Rock Springs, along with several adjunct instructors. Faculty members strive to remain active and knowledgeable in the

field. The department adjusts to the changing needs of the modern student by offering online courses.

**Name of program: Criminal Justice**

CIP Code(s): 43.0103

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2010-2011

Credential(s) awarded:

AA.CRIMINAL JUSTICE

AAS.LAW ENFORCEMENT

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Criminal Justice program currently still centers around two degree programs the A.A. program with emphasis in Criminal Justice is intended for those students who will transfer to a four-year school and who will be seeking careers in Criminal Justice areas, such as law, law enforcement, and or corrections. This program is also beneficial for students who will not move on to a four year institution and seek employment after the two year degree. The suggested program consists of degree and transfer requirements in addition to an emphasis in the social and behavioral sciences and core courses in Criminal Justice.

The second program, the A.A.S. program in Law Enforcement is intended for those students who intend to go directly to the field of law enforcement after the two year degree or those who are already working in the field and need to obtain a two year degree to be eligible for a promotion. The program includes general requirements and courses that are specific to the field of law enforcement.

Both programs were re-structured in 1997 upon the advice of the advisory committee composed of regional Criminal Justice Professionals from Sweetwater County along with surrounding counties. This advisory council remains in place today and continues to meet on an annual basis. The original goal of the program was to be eligible for full POST Certification, although this goal has run into roadblocks with new administrators specifically a new Governor, being elected on a state level this fall, this goal can be revisited.

**Name of program: Dance**

CIP Code(s): 50.0301

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-2014

Credential(s) awarded: AA.DANCE

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The mission of the WWCC Dance Department is to provide a well-rounded dance education driven by the ideology that dance is an art form that incorporates the whole person. The department offers a progression of various dance classes and encourages students to express their own ideas through the creative process of dance technique and choreography. Furthermore, the program allows students the opportunity to study with guest artists (in both technique and choreographic experiences), perform with Desert Dance Theatre and collaborate with other departments for a well-rounded artistic experience.

**Name of program: Theater**

CIP Code(s): 50.0501

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2010-2011

Credential(s) awarded:

MUSICAL THEATRE AFA DEGREE

MUSICAL THEATRE EMPHASIS AA DEGREE

THEATRE EMPHASIS AA DEGREE

TECHNICAL THEATRE AFA DEGREE

TECHNICAL THEATRE EMPHASIS AA DEGREE

TECHNICAL THEATRE CERTIFICATE

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

Western's Theatre program has a long standing reputation for professional and award winning theatre, musical theatre and dance productions. Our program offers talented and dedicated students many opportunities. Our primary objective is to nourish the individual in a safe, high-quality, professional environment. The curriculum is carefully crafted to educate and train well-rounded theatre artists. Our small class sizes enable students to get the personal attention from our professors, allowing students to develop at a pace that is comfortable for them. This also makes it possible to guarantee performance and technical opportunities every year for each student – opportunities rare for freshman or sophomores in four-year programs. Our quality education is founded on creating a friendly and safe environment allowing students to feel more comfortable in experimenting and making bold decisions.

**Name of program: Welding**

CIP Code(s): 43.0303 48.0508

Date this report is presented to the WCCC: October 2014

Academic year review was done: 2013-2014

Credential(s) awarded:

Welding Technology Fabrication Shop Option Certificate;

Welding Technology Fabrication Shop Option AAS Degree;  
Welding Technology Industrial Plant Option Certificate;  
Welding Technology Industrial Plant Option AAS Degree;  
Welding Technology Mine Maintenance Option Certificate;  
Welding Technology Mine Maintenance Option AAS Degree

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs:

The Welding Program serves a number of purposes within our community:

- We provide traditional students with the opportunity to learn and develop the skills necessary to begin a career in the welding field.
- We provide non-traditional and working students with the opportunity to enhance their current skills in order to improve their career options.
- We provide an open entry/open exit class schedule in order to accommodate working students and shift workers
- We provide advanced training and testing for local industry based on standards set by the American Welding Society, the American Society of Mechanical Engineers and the American Petroleum Institute.
- We work with the Plumbers and Pipefitter's Union Local # 192, allowing them to use our facilities for the administration of their Apprenticeship Program.
- As a means of student recruitment, we visit high schools in our service area to talk about our program.
- We conduct an annual High School Welding Contest which draws competitors from all across our service area as well as from adjoining states.
- We accommodate students and their parents with campus visits and tours of our facilities.
- We are an American Welding Society Accredited Testing Facility. As such, we offer Code Weld Testing to local companies and to individuals.