



## Wyoming Community College Commission 2014-2015 Academic Program Review Report

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 WCCC 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 every 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 yearly updated information to include the previous academic year.

### Part B

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 only address a few of these topics.

The complete report will be posted to the WCCC website under “Reports”. The 2015 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

Academic Year Reported: AY 14-15		Casper College							
Casper College Program Name		Automotive Technology	Aviation	Environmental Science	Extractive Resources Technology	Geographic Information Systems	Occupational Therapy Assistant	Paramedic Technology	Technical Studies
CIP code(s)		47.0604	49.0102	3.0104	15.0901	45.0702	51.0803	51.0904	24.0102
Name of credential(s)		AAS in Automotive Technology; Certificate in Automotive Technology	AAS in Aviation	AS in Environmental Science	AAS in Extractive Resources Technology; Certificate in Extractive Resources Technology	AS in Geographic Information Systems; Certificate in Geographic Information Systems	AS in Occupational Therapy Assistant; Certificate in Assistive Technology; Certificate in Equine Assisted Therapy	AS in Paramedic Technology	AAS in Technical Studies
Active Partnerships (Yes/No)		N	Y	N	N	N	N	N	Y
Name of specialized accreditation organization (if applicable)		N/A	FAA	N/A	N/A	N/A	Accreditation Council for Occupational Therapy Education	Commission on Accreditation of Allied Health Programs	N/A
Active Advisory Committee (Yes/No)		Y	Y	N	Y	N		Y	N
Offering mode(s) (trad., distance or hybrid)		face-to-face	face-to-face	face-to-face; distance	face-to-face; distance	face-to-face; distance	face-to-face, hybrid, distance	face-to-face	face-to-face
Four letter course prefix		AUTO	AVTN	ENR;ENVT	EXTR	GEOG	COTA; OCTH	PTEP; EMT	N/A
Credit hour enrollment in courses with the course prefix for the past five academic years	AY 14-15	500	84	81	159	634	775	890	N/A
	AY 13-14	633	93	226	172	888	981	735	N/A
	AY 12-13	625	156	220	237	977	1054	640	N/A
	AY 11-12	758	99	173	88	904	1045	573	N/A
	AY 10-11	878	195	138	126	966	943	633	N/A
Number of declared majors for the past five academic years	AY 14-15	15	3	6	9	12	33	37	2
	AY 13-14	19	8	6	13	17	28	40	1
	AY 12-13	27	13	5	7	11	35	37	1
	AY 11-12	25	8	0	9	19	33	37	1
	AY 10-11	35	13	5	10	17	30	40	4

Academic Year Reported: AY 14-15		Casper College							
Casper College Program Name		Automotive Technology	Aviation	Environmental Science	Extractive Resources Technology	Geographic Information Systems	Occupational Therapy Assistant	Paramedic Technology	Technical Studies
Number of program graduates (and/or certificate earners) for the past five academic years	AY 14-15	4	1	0	3	11	26	5	0
	AY 13-14	7	0	0	3	14	26	6	0
	AY 12-13	10	1	1	1	12	36	0	1
	AY 11-12	7	1	0	0	12	27	1	1
	AY 10-11	11	2	1	2	9	8	5	1
Number of community college service area resident program graduates for the past five years	AY 14-15	3	1	0	1	8	9	3	0
	AY 13-14	4	0	0	3	6	12	6	0
	AY 12-13	6	1	0	1	8	19	0	0
	AY 11-12	4	0	0	0	10	13	0	1
	AY 10-11	6	2	1	1	6	3	1	1
Total number of Wyoming resident program graduates for the past five years	AY 14-15	4	1	0	2	11	22	5	0
	AY 13-14	5	0	0	3	13	19	6	0
	AY 12-13	3	1	1	1	11	32	0	1
	AY 11-12	7	0	0	0	10	24	1	1
	AY 10-11	10	2	1	1	7	8	5	1
Plan for assessment follow-up (none, in-progress or done)		in-progress	in-progress						in-progress

Academic Year Reported: AY 14-15		Central Wyoming College						
Program name or program cluster name that includes....		Automotive Technology	Dental Assistant	Environmental Science	Geography	Graphic Design	Health Science	Interdisciplinary Studies
CIP code(s)		47.0604	51.0601	14.1401 15.0701	45.0702	50.0409	51.0999 51.2603 51.0001	30.9999
Name of credential(s)		AAS CERT CERT II (CRD)	CERT CERT II (CRD)	AAS CERT CERT II (CRD)	AAS CERT CERT II (CRD)	AAS	CERT CERT II (CRD) AA	AA
Active Partnerships (Yes/No)		No	Yes	Yes	Yes	No	Yes	No
Name of specialized accreditation organization (if applicable)		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Active Advisory Committee (Yes/No)		Yes	Yes	Yes	Yes	No	in development	No
Offering mode(s) (trad., distance or hybrid)		Trad	Trad	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid
Four letter course prefix		AUTO PRSP PWRS	DNTA	EHS ENR	GEOG G&R GEOL	ART	HLED HLTK NRST BIOL MOLB ZOO CHEM	MUSC THEA CO/M
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 14-15	330	69	137	352	531	3117.5	403.5
	AY 13-14	311	209	334.5	275	754	3556	381
	AY 12-13	410	195	312.5	353	876	3409	532
	AY 11-12	470	127	208	295	915	3804	709.5
	AY 10-11	478	169	265.5	405	929	3365	795.5
Number of declared majors for the past five academic years	AY 14-15	29	11	34	23	7	35	5
	AY 13-14	26	20	57	0	17	5	2
	AY 12-13	37	20	56	0	14	2	0
	AY 11-12	38	16	44	0	15	0	0
	AY 10-11	41	11	40	0	16	0	0
	AY 14-15		5	6	4	1	4	0

Number of program graduates (and/or certificate earners) for the past five academic years	AY 13-14	7	9	7	0	2	0	0
	AY 12-13	3	9	13	0	1	0	0
	AY 11-12	4	4	8	0	3	0	0
	AY 10-11	7	6	2	0	4	0	0
Academic Year Reported: AY 14-15		Central Wyoming College						
Program name or program cluster name that includes....		Automotive Technology	Dental Assistant	Environmental Science	Geography	Graphic Design	Health Science	Interdisciplinary Studies
Number of community college service area resident program graduates for the past five years	AY 14-15		4	4	2	1	2	0
	AY 13-14	5	9	6	0	1	0	0
	AY 12-13	2	8	13	0	1	0	0
	AY 11-12	4	4	7	0	3	0	0
	AY 10-11	6	6	2	0	4	0	0
Total number of Wyoming resident program graduates for the past five years	AY 14-15	0	5	5	2	1	3	0
	AY 13-14	7	9	6	0	2	0	0
	AY 12-13	2	8	13	0	1	0	0
	AY 11-12	4	4	7	0	3	0	0
	AY 10-11	7	6	2	0	4	0	0
Plan for assessment follow-up (none, in-progress or done)		Annual progress reports with 5-yr program review report.	Annual progress reports with 5-yr program review report.	Annual progress reports with 5-yr program review report.	Annual progress reports with 5-yr program review report.	Annual progress reports with 5-yr program review report.	Annual progress reports with 5-yr program review report. Additional action plans will be developed by advisory committee.	Annual progress reports with 5-yr program review report.

Academic Year Reported: AY 14-15		Eastern Wyoming College					
Program name or Program Cluster that includes....	Agriculture Business & Science, Ag Beef Production, Farm/Ranch Technology, Rangeland Ecology & Watershed Management	Art	Hair Technology, Cosmetology, Nail Technology, Skin Technology	Elementary Education, Secondary Education, Child Development Certificate, Early Childhood Education, ESL/EFL Teaching Certificate Program	Interdisciplinary Studies	Mathematics, Math Education, Statistics	Foreign Languages
CIP code	01.0102, 01.0104, 01.0303, 01.1106	50.0701	12.0401, 12.0407, 12.0409, 12.0410	13.1202, 13.1205, 13.1210	24.0101	27.0101, 13.1311, 27.0101	16.0101
Name of credential(s)	AGBSS.AS, AGBP.CD, FRCH.AAS, AQTK.C, REWM.AS	ART.AA	CSMO.AAS, CSHT.C, CSST.C, CSNT.C	EEDL.AA, ELED.AA, SCED.AA, ECC.C, ECDL.C, EDEC.AA, EDL.AA, ESFL.C	INST.AA, INST.AS, INDL.AA, INDL.AS	MATH.AS, MTED.AA, STAT.AS	LANG.AA
Active Partnerships (Yes/No)	Yes	No	Yes	Yes	No	No	No
Name of specialized accreditation organization (if applicable)	N/A	N/A	Wyoming State Board of Cosmetology	N/A	N/A	N/A	N/A
Active Advisory Committee (Yes/No)	Yes	No	Yes	Yes	No	No	No
Offering mode(s) (Face-to-face, distance learning or hybrid)	FF	FF	FF	FF and DL	FF and DL	FF and DL	FF and DL

Prefix		AECL, AGECE, AGRI, AGTK, ANSC, AQTK, CROP, EQST, REWM, RNEW, SOIL	ART	CSMO	EDEC, EDEL, EDEX, EDFD, EDUC, ITEC, LIBS	DVST and HMDV	MATH and STAT	FREN, GERM, SPAN
Credit hour enrollment in courses with a {insert four letter prefix } course prefix for each of the past five academic years	AY 14-15	152	138	107	188	71	450	72
	AY 13-14	167	148	104	193	69	405	80
	AY 12-13	133	132	129	168	79	383	58
	AY 11-12	154	129	114	128	71	319	58
	AY 10-11	102	146	123	118	83	310	60
Academic Year Reported: AY 14-15		Eastern Wyoming College						
Program name or Program Cluster that includes....		Agriculture Business & Science, Ag Beef Production, Farm/Ranch Technology, Rangeland Ecology & Watershed Management	Art	Hair Technology, Cosmetology, Nail Technology, Skin Technology	Elementary Education, Secondary Education, Child Development Certificate, Early Childhood Education, ESL/EFL Teaching Certificate Program	Interdisciplinary Studies	Mathematics, Math Education, Statistics	Foreign Languages
Number of declared majors for each of the past five academic years	AY 14-15	78	10	32	87	158	4	0
	AY 13-14	77	10	32	95	178	5	0
	AY 12-13	64	14	37	99	172	4	0
	AY 11-12	76	23	48	98	215	6	0
	AY 10-11	56	17	37	113	214	2	0
Number of program graduates (and/or certificate earners) for the past five academic years	AY 14-15	24	0	10	23	52	1	0
	AY 13-14	17	0	9	6	29	1	0
	AY 12-13	10	0	11	14	22	0	0
	AY 11-12	36	0	15	16	38	0	0
	AY 10-11	5	0	16	20	35	0	0
	AY 14-15	3	0	3	11	16	1	0
	AY 13-14	1	0	3	3	4	0	0



Total number of community college service area resident program graduates for the past five years	AY 12-13	2	0	3	8	5	0	0
	AY 11-12	3	0	4	8	7	0	0
	AY 10-11	2	0	6	14	9	0	0
Total number of Wyoming resident program graduates for the past five years	AY 14-15	11	0	9	18	40	1	0
	AY 13-14	11	0	6	4	22	0	0
	AY 12-13	4	0	9	13	18	0	0
	AY 11-12	25	0	13	14	27	0	0
	AY 10-11	3	0	13	17	27	0	0
Plan for assessment follow-up (no, in-progress or done)		in-progress	in-progress	in-progress	in-progress	in-progress	in-progress	in-progress

Academic Year Reported: AY 14-15		Laramie County Community College					
Program name or program cluster name that includes....		Automotive Tech.	Dental Hygiene	EMS - Paramedic	HVAC	Surgery Technology	Technical Studies
CIP code(s)		47.0604	51.0602	51.0904	47.0201	51.0909	47.999
Name of credential(s)		AAS, CERT	AAS	AAS, CERT	AAS, CERT	AAS	AAS
Active Partnerships (Yes/No)		Yes	Yes	Yes	Yes	Yes	No
Name of specialized accreditation organization (if applicable)		N/A	Commission on Dental Accreditation	CAAHEP/CoAEMSP	N/A	CAAHEP, ARC/STSA	N/A
Active Advisory Committee (Yes/No)		Yes	Yes	Yes	Yes	Yes	No
Offering mode(s) (trad., distance or hybrid)		Traditional	Traditional	Traditional, Hybrid	Traditional	Hybrid	Traditional
Four letter course prefix		AUTO	DHYG	EMGT	HVAC	SURG	N/A *
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY14-15	654	997	690	231	56	N/A
	AY13-14	676	1105	542	133	229	N/A
	AY12-13	741	1117.5	496	176	205	N/A
	AY11-12	703	1147	512	218	289	N/A
	AY10-11	710	154.5	528	46	261	N/A
Number of declared majors for the past five academic years	AY14-15	37	37	53	16	16	7
	AY13-14	45	42	53	11	32	4
	AY12-13	43	44	54	21	32	0

	AY11-12	49	52	50	16	51	1
	AY10-11	48	51	44	3	49	1
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>	AY14-15	11	16	13	20	10	0
	AY13-14	19	20	12	4	5	1
	AY12-13	6	17	5	4	9	0
	AY11-12	7	20	10	0	8	0
	AY10-11	14	16	11	0	5	0
<b>Number of community college service area resident program graduates for the past five years</b>	AY14-15	8	6	10	18	5	0
	AY13-14	17	8	5	4	2	1
	AY12-13	6	5	3	4	3	0
	AY11-12	7	3	5	0	5	0
	AY10-11	10	5	8	0	2	0
<b>Academic Year Reported: AY 14-15</b>		<b>Laramie County Community College</b>					
<b>Program name or program cluster name that includes....</b>		Automotive Tech.	Dental Hygiene	EMS - Paramedic	HVAC	Surgery Technology	Technical Studies
<b>Total number of Wyoming resident program graduates for the past five years</b>	AY14-15	10	8	11	19	6	0
	AY13-14	19	11	11	4	3	1
	AY12-13	6	9	3	4	7	0
	AY11-12	7	8	6	0	7	0
	AY10-11	14	10	9	0	4	0
<b>Plan for assessment follow-up (none, in-progress or done)</b>		In-progress	In-Progress	In-Progress	In-Progress	In-Progress	In-Progress

\* Because the Technical Studies program does not have a direct four letter course prefix, there is not an accurate way to determine the number of credit enrollment hours under this program.

Academic Year Reported: AY 14-15		Northwest College	
Program name or program cluster name that includes....		Aviation {Aeronautics}	Photography {Photographic Communications, Basic Photographic Imaging, Basic Digital Imaging, Photographic & Digital Preservation Specialist}
CIP code(s)		49.0101	50.0406
Name of credential(s)		AS	AAS, CERT
Active Partnerships (Yes/No)		Yes	Yes
Name of specialized accreditation organization (if applicable)		N/A	N/A
Active Advisory Committee (Yes/No)		Yes	Yes
Offering mode(s) (trad., distance or hybrid)		Traditional, hybrid	Traditional, hybrid
Four letter course prefix		AVTN	PHTO
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 14-15	146	1624
	AY 13-14	81	1561
	AY 12-13	59	1887
	AY 11-12	0	1826
	AY 10-11	0	1761
Number of declared majors for the past five academic years	AY 14-15	13	73
	AY 13-14	10	76

	AY 12-13	7	104
	AY 11-12	1	95
	AY 10-11	0	79
Number of program graduates (and/or certificate earners) for the past five academic years	AY 14-15	0	17
	AY 13-14	2	26
	AY 12-13	0	41
	AY 11-12	0	26
	AY 10-11	0	25
Number of community college service area resident program graduates for the past five years	AY 14-15	0	6
	AY 13-14	2	4
	AY 12-13	0	14
	AY 11-12	0	8
	AY 10-11	0	8
Academic Year Reported: AY 14-15		Northwest College	
Program name or program cluster name that includes....		Aviation {Aeronautics}	Photography {Photographic Communications, Basic Photographic Imaging, Basic Digital Imaging, Photographic & Digital Preservation Specialist}
Total number of Wyoming resident program graduates for the past five years	AY 14-15	0	10
	AY 13-14	2	8
	AY 12-13	0	23
	AY 11-12	0	19
	AY 10-11	0	15
Plan for assessment follow-up (none, in-progress or done)		Done	Done

Academic Year Reported: AY 14-15		Northern Wyoming Community College District					
Program name or program cluster name that includes....		Dental Hygiene	Diesel Technology	Health Science	Survey Technology	* Mining Technology, Mine Mgmt, Mine Safety & Technology, Industrial Operations Mgmt	HVAC Apprenticeship
CIP code(s)		51.0602	47.0605	51.0000	15.1102	15.0901	47.0201
Name of credential(s):		AAS	Certificate, AAS	AS	AAS	AAS	Certificate
Active Partnerships (Yes/No)		Yes	Yes	Yes	Yes	Yes	Yes
Name of specialized accreditation organization (if applicable)		Commission on Dental Accreditation	N/A	N/A	N/A	N/A	N/A
Active Advisory Committee (Yes/No)		Yes	Yes	No	No	Yes	Yes

Offering mode(s) (trad., distance or hybrid)		Traditional, Hybrid	Traditional	Traditional, Online	Traditional	Traditional, Online	Traditional
Four letter course prefix		DHYG	AUTO, DESL, INDM, SAFE	HLTK (1000, 1560, 1670), HOEC	ENTK (2070), LS	MINE	HVAC
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY14-15	1426	1728	436	18	127	48
	AY13-14	1365	1918	442	9	158	48
	AY12-13	1413	1939	482	33	140	54
	AY11-12	1431	1788	400	15	238	60
	AY10-11	1392	1378	600	18	72	0
Number of declared majors for the past five academic years	AY14-15	24	153	55	6	23	8
	AY13-14	24	172	57	8	22	NA
	AY12-13	23	194	42	9	25	NA
	AY11-12	24	152	22	3	32	NA
	AY10-11	24	78	30	6	24	NA
Academic Year Reported: AY 14-15		Northern Wyoming Community College District					
Program name or program cluster name that includes....		Dental Hygiene	Diesel Technology	Health Science	Survey Technology	*Mining Technology, Mine Mgmt, Mine Safety & Technology, Industrial Operations Mgmt	HVAC Apprenticeship
Number of program graduates (and/or certificate earners) for the past five academic years	AY14-15	21	42	10	3	4	4
	AY13-14	21	48	5	2	9	NA
	AY12-13	23	48	5	1	2	NA
	AY11-12	21	17	4	4	9	NA
	AY10-11	21	25	7	1	0	NA
Number of community college service area resident program graduates for the past five years	AY14-15	4	22	4	0	2	4
	AY13-14	1	32	3	0	8	NA
	AY12-13	10	30	4	0	2	NA

	AY11-12	1	12	3	1	8	NA
	AY10-11	3	19	3	1	0	NA
Total number of Wyoming resident program graduates for the past five years	AY14-15	9	28	7	3	3	4
	AY13-14	11	42	4	1	8	NA
	AY12-13	16	39	5	0	2	NA
	AY11-12	7	13	4	3	9	NA
	AY10-11	11	22	4	1	0	NA
Plan for assessment follow-up (none, in-progress or done)		None	None	None	None	None	None

\* Mining Technology has three imbedded (stackable) certificates: Mine Management, Mine Safety & Technology and Industrial Operations Management

Academic Year Reported: AY 14-15	Western Wyoming Community College		
Program name or program cluster name that includes...	Automotive Tech	Diesel Technology and CDL	Extractive Technology
CIP code(s)	47.0604	47.0605	15.0903 47.0303 47.9999

		AAS.AUTOMOTIVE TECHNOLOGY, AUTOMOTIVE TECHNOLOGY CERTIFICATE	AAS.DIESEL & HEAVY EQUIPMENT TECHNOLOGY, DIESEL & HEAVY EQUIP TECH CERTIFICATE, DIESEL TECHNOLOGY CERTIFICATE, DIESEL TECHNOLOGY WITH CDL CERTIFICATE	AAS.NATURAL GAS COMPRESSION TECHNOLOGY AAS.OIL & GAS PRODUCTION TECHNOLOGY NATURAL GAS COMPRESSION TECHNOLOGY CERTIFICATE OIL & GAS PRODUCTION OPERATOR CERTIFICATE AAS.INDUSTRIAL MAINTENANCE TECH. INDUSTRIAL MAINT CERTIFICATE (MECH/WELDING) MAINTENANCE MECHANIC CERTIFICATE FOR INDUSTRY POWER PLANT MAINTENANCE MECHANICS CERTIFICATE AAS.INDUSTRIAL HEALTH & SAFETY AAS.MINE MAINTENANCE TECHNOLOGY ELECTRICAL MINE MAINTENANCE CERTIFICATE SURFACE MAINTENANCE MECHANICS CERTIFICATE UNDERGROUND MAINTENANCE MECHANICS CERTIFICATE
<b>Name of credential(s)</b>				
<b>Active Partnerships (Yes/No)</b>		Yes Internships/Training	Yes Internships/Training	Yes Internships/Training
<b>Name of specialized accreditation organization (if applicable)</b>		Yes - NATEF	No	Yes - MSHA
<b>Active Advisory Committee (Yes/No)</b>		Yes	Yes	Yes
<b>Offering mode(s) (trad., distance or hybrid)</b>		Hybrid	Hybrid	Hybrid
<b>Four letter course prefix</b>		AUTO	DESL	OGPT CMPT MINE
<b>Credit hour enrollment in courses with the course prefix (above) for the past five academic years</b>	AY14-15	618	301	1278.5
	AY13-14	648	229	1025.5
	AY12-13	580	214	1224.5
	AY11-12	733	396	1465.5
	AY10-11	545	287	1536
<b>Number of declared majors for the past five academic years</b>	AY14-15	36	51	148
	AY13-14	33	55	168
	AY12-13	39	41	137
	AY11-12	40	42	120
	AY10-11	18	37	71
<b>Academic Year Reported: AY 14-15</b>		<b>Western Wyoming Community College</b>		
<b>Program name or program cluster name that includes...</b>		Automotive Tech	Diesel Technology and CDL	Extractive Technology



Number of program graduates (and/or certificate earners) for the past five academic years	AY14-15	4	4	77
	AY13-14	3	6	49
	AY12-13	4	8	25
	AY11-12	5	2	16
	AY10-11	1	5	28
Number of community college service area resident program graduates for the past five years	AY14-15	3	3	69
	AY13-14	3	4	44
	AY12-13	1	7	23
	AY11-12	5	2	16
	AY10-11	1	3	23
Total number of Wyoming resident program graduates for the past five years	AY14-15	3	4	74
	AY13-14	3	5	44
	AY12-13	2	7	24
	AY11-12	5	2	16
	AY10-11	1	4	23
Plan for assessment follow-up (none, in-progress or done)		In-progress	In-progress	In-progress

# Executive Overview of Program Reviews

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## *Casper College*

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### **Name of program (or programs in this cluster): Automotive Technology**

CIP Code(s) (six digits): 47.0604

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AAS or Automotive Technology Certificate

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

The automotive technology program provides quality training relevant to current trends in automotive repair technology. The program enhances a student's employment potential and opportunities by providing knowledge and skills relevant to current trends in automotive repair. Job growth in the automotive industry as expected to add over 230,000 new jobs with a 30 percent growth in the industry through the year 2020. This ever changing field provides opportunities in the fields of line technician, service consultant, store owner, parts and parts distribution, wholesaling, vehicle maintenance, repair and performance upgrades.

#### Additional Narrative:

After 30 years at Casper College, Randal Waldron retired last spring (2014). Casper College hired Chris Raymond, who has over 10 years' experience as a mechanic on many types of vehicles and one year teaching for Wyo Technology. Chris began to make some changes in the Casper College Automotive Technology Program and is working toward the development of an active advisory board, NATEF accreditation with additional high-performance rebuilding. Casper College has hosted the Skills USA Competition for the past several years and looks forward to this opportunity again this year at Casper College.

### **Name of program (or programs in this cluster): Aviation**

CIP Code(s) (six digits): 49.0102

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AAS

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

Graduates of this program will become the workforce that safely operates and maintains aircraft and aircraft facilities. Ground school classes are a traditional type using lectures,

textbook exercises, quizzes and examinations to reinforce learning. Local high school students often enroll in the private ground school for dual credit. Central Wyoming College is also offering dual enrollment classes in its service area and those high school students from Riverton will transfer to Casper College for aviation. All faculty members are certified and must be Certified Flight Instructors to teach classes. The partnership with Crosswind Aviation allows Casper College to offer an aviation degree in a cost effective manner.

Additional Narrative:

Assessment Activities and Results (raw data): Goal A is to provide comprehensive training in the areas of flight training, and academic coursework, so that graduates are technically qualified to obtain employment in the aviation industry. 80% of students who graduate from the Casper College Aviation program are able to find employment in the aviation field, a related field or are pursuing an advanced degree or commercial pilot training. Goal B is to provide the necessary training and skills so that graduates from the aviation program are able to find employment and/or continue on to advanced training in the aviation area. 70% of the graduates in the aviation program will obtain a satisfactory score on the FAA written exam, FAA flight test with a certified FAA Official.

**Name of program: Environmental Science**

CIP Code(s) (six digits): 03.0104

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AS-Environmental Science

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

*The mission of the Earth and Environmental Science department is to effectively educate a wide variety of students and the general public about Earth and Environmental sciences so as to improve the quality of their life, the Wyoming community, and the natural world. A better educated population makes better decisions concerning conservation and resource management.*

The environmental science degree is intended to provide students with the knowledge needed to find entry level work in a variety of environmental disciplines. The degree may also be used to fulfill the first two years of a four year degree. We strive to educate students about biological, environmental, and natural resources concepts relevant to the individual, to society, and to local and global environments. Fittingly for Wyoming, we encourage place-based experiences for students and opportunities for students to experience inquiry in the classroom, field, and community.

Additional Narrative:

The Associate Degree in Environmental Science makes an excellent transfer degree or as an "emphasis area" within a variety of other programs. Consequently, identifying the career outlook is difficult because it is an increasingly important knowledge and skill set across a

variety of disciplines. According to the Bureau of Labor Statistics in 2012, Environmental Scientists and Specialists have the following outlook:

<b>Quick Facts: Environmental Scientists and Specialists</b>	
<a href="#"><u>2012 Median Pay</u></a>	\$63,570 per year \$30.56 per hour
<a href="#"><u>Entry-Level Education</u></a>	Bachelor's degree
<a href="#"><u>Number of Jobs, 2012</u></a>	90,000
<a href="#"><u>Job Outlook, 2012-22</u></a>	15% (Faster than average)

According to O-Net Online, the projects for Wyoming are:

Wyoming	Employment		Percent Change	Projected Annual Job Openings
	2012	2022		
Environmental Science and Protection Technicians, Including Health	160	210	+29%	10

### **Name of program: Extractive Resources**

CIP Code(s) (six digits): 15.0903

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AAS – Extractive Resources, Certificate – Extractive Resources

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

*The mission of the Earth and Environmental Science department is to effectively educate a wide variety of students and the general public about Earth and Environmental sciences so as to improve the quality of their life, the Wyoming community, and the natural world. A better educated population makes better decisions concerning conservation and resource management.*

The extractive resources technology program is designed to provide the student with the knowledge and skills required for employment in the petroleum and natural gas industries. The program gives the students a broad range of skills that are essential for technicians who want to work in the petroleum and natural gas service, production, transportation, and refining industries. Students can receive a two-year associate of applied science degree or a one-year certificate in the area of extractive resources technology.

#### Additional Narrative:

The Associate of Applied Science and Certificate programs in Extractive Resources prepare students for a variety of careers. Some of the job titles include: Derrick Operators, Rotary Drill Operators, Service Unit Operators, Geological and Petroleum Technicians and Wellhead Pumpers. According to the Bureau of Labor Statistics,

Data series	Wages, 2014	
	Annual	
	Median	Mean
<a href="#">Petroleum pump system operators, refinery operators, and gaugers</a>	60,600	61,130
<a href="#">Roustabouts, oil and gas</a>	36,530	38,170
<a href="#">Wellhead pumpers</a>	50,430	50,350

In Wyoming, "Extraction Workers, All Other" for example, is projected to have a mean salary of \$44,680 and a healthy growth rate.

#### Enrollment History:

	F05	F06	F07	F08	F09	F10	F11	F12	F13	F14
Extractive Resources Tech	1	1	1	5	10	9	7		13	9

#### **Name of program: Geographic Information Systems (GIS)**

CIP Code(s) (six digits): 45.0702

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AS-GIS, Certificate-GIS

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

*The mission of the Earth and Environmental Science department is to effectively educate a wide variety of students and the general public about Earth and Environmental sciences so as to improve the quality of their life, the Wyoming community, and the natural world. A better educated population makes better decisions concerning conservation and resource management.*

Students may obtain either the one-year certificate in Geographic Information Systems (GIS), or the Associate of Science in GIS. Additionally, students in many fields may obtain a minor concentration (equivalent to the certificate curriculum) in the course of obtaining their associate's degree. The certificate program is designed for persons wishing to obtain GIS training in order to enhance their academic degree or current career choice.

Additional Narrative:

GIS skills are needed in a wide variety of career opportunities in Wyoming and across the nation. Often, students combine this program with other majors and/or career preparation tracks and professions, so identifying jobs in this field can be difficult. According to the Bureau of Labor Statistics in 2012, the outlook for GIS trained geographers is:

Quick Facts: Geographers	
2012 Median Pay	\$74,760 per year \$35.94 per hour
Entry-Level Education	Bachelor's degree
Number of Jobs, 2012	1,700
Job Outlook, 2012-22	29% (Much faster than average)

At the entry level, base salary is just under \$40,000 per year and the jobs nationwide are predicted to grow at about 14%.

Enrollment History:

	F06	F07	F08	F09	F10	F11	F12	F13	F14
Geographic Info Systems	3	11	12	14	17	19	11	17	12

**Name of program (or programs in this cluster): Occupational Therapy Assistant**

CIP Code(s) (six digits): 51.0803

Date this report is presented to the WCCC: October 2015

Academic year review was done: {14-15}

Credential(s) awarded: A.S. Occupational Therapy Assistant; Assistive Technology Certificate; Equine Assisted Therapy Certificate; Gerontology Certificate

Program's role and alignment with student, employer, service area, and/or State of Wyoming needs: A.S. Occupational Therapy Assistant: By completion of the Occupational Therapy Assistant program students will develop skills to provide judicial and conscientious practice of the occupational therapy profession, advocating for clients to lead full and meaningful lives. Students will exemplify the foundations of the program to remain competent with occupational therapy practice and continue to grow professionally and uphold the integrity of the profession. The Casper College OTA program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA). Graduates of the program will be able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states, including Wyoming, require

licensure in order to practice; state licenses are usually based on the results of the NBCOT Certification Examination.

**Assistive Technology Certificate:** This one semester curriculum is designed to prepare students for employment in working with various age groups and disabilities who experience challenges in life skills and could benefit from Assistive Technology to maximize function and independence. Students will become eligible to assist personnel who incorporate Assistive Technology in identifying general considerations for various diagnoses, populations and safety and ethics in working with people with disabilities utilizing this specialized approach.

**Equine Assisted Therapy Certificate:** This one semester curriculum is designed to prepare students for employment in working with various age groups and disabilities utilizing equine assisted therapy. Students will become eligible to assist personnel who use equine assisted therapy in identifying general considerations for various diagnoses, populations and safety and ethics in working with people with disabilities utilizing this specialized approach.

**Gerontology Certificate:** This one semester curriculum is designed to prepare students to work with geriatric clients. Throughout the course work, students will learn about the effects of aging, therapeutic interactions with older adults, common diagnoses seen in this population, and the importance of health and wellness with this particular population. The students will learn about community resources that are available for older adults and how to access these resources. The students will be educated on safety considerations when working with older adults and how to decrease or prevent falls within the client's home and community. Students will be educated about safety and perform home safety reviews to decrease potential fall hazards within the geriatric client's home.

**Name of program (or programs in this cluster): Paramedic Technology**

CIP Code(s) (six digits): 51.0904

Date this report is presented to the WCCC: October 2015

Academic year review was done: {2014-2015}

Credential(s) awarded:

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

**A.S. Paramedic Technology**

The Paramedic Technology Associate Degree is designed to prepare persons to provide immediate primary emergency care to people in health crises. The graduate will be able to provide basic and advanced life support under the direction of a physician to all age groups and populations. Extensive didactic instruction, skills, practicum and populations. Extensive didactic instruction, skills, practicum and internship experiences will be completed to provide the student with the foundational knowledge and skills to successfully attain national registry of Emergency Medical Technicians-Paramedic certification. The primary goal of the program will be to produce competent, entry level paramedics to serve in career and volunteer positions.

#### EMT 1500: Emergency Medical Technician

This course is designed to provide the student with a basic working knowledge of Emergency Medical Services and how to provide care for the sick and injured. This course follows the current National EMS Education Standards. Upon successful completion of the course, the student will be ready to sit for state and national certification EMT examinations. Upon successful completion of the EMT exam, the student will also be prepared for an entry level position in Emergency Medical Services.

#### EMT 2500: Advanced Emergency Medical Technician

This course is designed to provide the student with an expanded and enhanced knowledge of Emergency Medical Services and how to provide advanced care for the sick and injured. This course follows the current National EMS Education Standards. Upon successful completion of this course, the student will sit for state and national certification examinations. Upon successful completion of the AEMT examination, the student will also be prepared for an entry level position providing advanced patient care as an AEMT.

### **Name of program (or programs in this cluster): Technical Studies**

CIP Code(s) (six digits): 24.0102

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AAS

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

The Technical Studies degree is designed for students who are planning to transfer to UW and enroll in a Bachelor of Applied Science degree. It is open to certificate holders who are interested in earning an associate degree of applied science degree via traditional classroom instruction or via distance education Programs in technical studies include mechanical and practical applications. As markets flood with new technology in every field, technical studies are becoming increasingly important.

#### Additional Narrative:

Casper College is working on a certificate for both Union and Non-Union Electricians that would provide students in the Electrical Apprenticeship Programs (both Union and Non-Union) an opportunity to obtain an AAS degree in Technical Studies from Casper College after obtaining their certificate in Technical Studies.



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## *Central Wyoming College*

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**Name of programs: Meta Major: Health Science AA, Meta Major: Health Science certificate**

CIP Code(s) (six digits): 51.0999, 51.2603, 51.0001

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-2015

Credential(s) awarded: AA, CERT

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

The Meta Major: Health Science AA and certificate option provides students with a broad range of knowledge, skills, and abilities in general education and health science concepts. This degree allows a student who is interested in a healthcare related field, but may be unsure of a specific area of emphasis, to explore career options while completing courses consistent with foundational academic requirements for any health related degree. Because the goal of this degree is to prepare the student to transfer to a four year institution majoring in a healthcare specific degree, the focus of a strong curricular foundation in life science prepares graduates to assist in meeting the need for healthcare works in the college's service area as well as the state of Wyoming.

Students who declare this program of study may determine their preferred healthcare specialty prior to the completion of this degree. Due to the congruency of program requirements with many healthcare degrees, students can change their major to a more focused degree without significantly delay in graduation. This streamlined approach maximizes the student's financial resources while minimizing the time required for the student to enter their chosen career.

Additional Narrative:

The Meta Major: Health Science AA and certificate option was approved one year ago, and in a short period of time has gained momentum in initial enrollments. To date, there are 46 students purposing the Meta Major: Health Science AA degree, with 4 graduates in the AA option. There is significant capacity to improve the program, including collection of specific feedback form program graduates on their perception of quality and transferability of the degree as well as the level of academic preparation this program provided them at the point of transfer. In addition, this degree is slated to be included in a new advisory committee focused on healthcare in general, which is in the development process.

**Name of program: Geography (Geospatial Information Science and Technology, Global Information System Tech.)**

CIP Code(s) (six digits): 45.0702

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-2015

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

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

In April 2013, over 40 attendees from the public, private and educational sector participated in the Environmental Training Needs Summit evaluating the need for advanced training in GIST, and all agreed there was a shortage of trained workers in this field, and a paucity of affordable and available training in Fremont County. CWC's Geospatial Information Science and Technology (GIST) Program was therefore launched in Spring 2014.

By Fall of 2014, the first eight students were enrolled in the Credential program, and in October 2014 CWC was awarded \$212, 000 from Wyoming Work Force to help jump-start the program. Funds included tuition and fees for students and program funds to help advance the program.

At present there are approximately 15 students enrolled in the GIST program seeking various levels of certification. Three of the first graduates who left CWC with a 16-credit credential (Certificate I) worked for the following organizations this summer: Fremont County Weed and Pest; a joint position overseen by NOAA and the University of Wyoming; and a joint work effort coordinated by the Bureau of Land Management and the CWC Archaeology Program.

Wyoming Workforce claims to be very pleased with the niche that CWC is filling in offering this training, and students are both enrolling in and completing the program. CWC anticipates continued growth, student success, and watching our students help fill the need for trained technicians.

Additional Narrative:

To date, the CWC GIST program is meeting Wyoming Work Force requirements of 80% completion and employment rates. All GIST classes in this brand-new program have met CWC capacity requirements (8 to 10).

With few exceptions, students find the workload challenging, but well within their limits. To date almost all students are advancing their coursework without issue and with passing grades. The first students to complete the AAS should graduate in Spring 2016.

Course delivery includes primarily hybrid courses. Students complete readings, quizzes, and theoretical assignments delivered through the online portal, then meet weekly to complete hands-on laboratory work. This delivery was established in response to student feedback.

CWC continues to strive for better articulation with the University of Wyoming. At present, GEOG 2150 is the only approved USP (UW) General Education (CWC) course that transfers directly and without issue. UW has assured the community colleges that GEOG 110 –

Intro to GIS – would soon also transfer without issue, and gave indication that additional courses would soon follow suit.

The GIST program recently underwent a review from Michael Frates, an experienced GIST program developer from the Environmental Services Research Institute, and the provider of ArcGIS the software used in the program. Overall, his response to the program layout was very positive. He did have some suggestions for changes, and we are currently looking at implementing some of those changes. ESRI will also publish an e-article by October 2015 for the online journal ArcWATCH (<http://www.esri.com/esri-news/arcwatch>) that will discuss CWC's program in detail. Readership for ArcWATCH is approximately 30, 000.

Given several courses of this program are embedded within the EHS: Environmental Technician program, members of the EHS Advisory Committee help to advise the advancement and continued development of the GIST program.

GIST is positioned at the core of a Wilderness-based Undergraduate Research Expedition entitled the Interdisciplinary Climate Change Expedition. This effort requires students to use global positioning systems and geographic information systems software to record field data and to map and present their results.

### **Name of program: Graphic Design**

CIP Code(s) (six digits): 50.0409

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014 - 2015

Credential(s) awarded: AAS

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

The AAS in Graphic Design is structured to meet the demands of the graphic design industry and the student. The degree requirements have been restructured to 60 total credits enabling the student to more efficiently gain the necessary conceptualization skills, visual problem solving strategies, knowledge of the design process, and technical skills to succeed in the graphic design industry. Students who graduate from the program either enter the business or transfer to four-year institutions to complete their Bachelor's degree.

### **Additional Narrative:**

For this year we have 15 active Graphic Design majors. Five of these are new students to CWC beginning Fall 2015. The remaining ten have been enrolled at least one semester in the past year. Several have been continually active since Fall 2012.

Enrollments in this program can dramatically fluctuate. Enrollments in key program requirement courses, e.g., Digital Imaging I and II, have been consistent. For Digital Imaging, the average enrollment is 13 students. In Digital Imaging II the enrollments have been lower averaging 6 students. Enrollee success for Digital Imaging I has been 79%. Digital Imaging II has a 76% enrollee success rate. For this last year, enrollments were low in some cornerstone classes in the program. Consequently, there is a significant capacity to grow. Those students in the program receive significant faculty support and continue to excel in their learning and grades.

**Name of program: Interdisciplinary Studies**

CIP Code(s) (six digits): 30.9999

Date this report is presented to the WCCC: September 15, 2015

Academic year review was done: 2014 - 2015

Credential(s) awarded: AA

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

The Associate of Arts Degree in Interdisciplinary Studies is designed to meet dual purposes. First of all the degree is designed to transfer to a four-year institution to complete a Bachelor of Arts or Science degree. Secondly, the degree allows the student to tailor their degree with two disciplines chosen in coordination of their academic advisor and approval by the appropriate Academic Dean. This flexibility allows the highly motivated and directed student to jump start their academic preparation for the career of their choice.

Additional Narrative:

This degree has been a choice for students for one year. Consequently, there is little student data and information concerning this degree. We do, however, have a total of six declared Interdisciplinary majors. Of these, five are in our Interdisciplinary: Theatre/Film version and one is in Interdisciplinary: Musical Theatre. These two combinations have been requested by current and prospective students in prior years. The faculty coordinate the students' programs and are also their academic advisors.

**Name of programs: Environmental Science (Environment Health and Safety Tech, Environmental Technician)**

CIP Code(s) (six digits): 14.1401, 15.0701

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-2015

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

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

Environmental Technician

This program was developed under the guidance of the Environment, Health and Safety (EHS) Advisory Board to meet employer and student needs in the field of Environmental Technician. The AAS program was established in 2010, with scaffolded credential and certificate programs following in 2012. The Environmental Tech field proffers a broad spectrum of employment opportunities including data collection using global positioning systems, air, water and soil sampling, permit creation, and compliance monitoring.

Graduates of the Environmental Tech of the program are currently working for Lowham Walsh Environmental Engineers in Lander, WY (x 1 graduate); Intermountain Labs in Sheridan, WY (x2 graduates); Precision Analysis in Riverton, WY (x2 graduates) and numerous other employers, including Conoco Philips (x1) in MT, and the University of Wyoming/NOAA. Jobs in

the Environmental Technician field range from the low end of \$12 to \$22 an hour, and higher. There remain more vacancies in the state than our current number of graduates can fill.

#### Health and Safety Technician

This program was developed, with input from the EHS Advisory Board, in response to industry needs for education in the field of health and safety specifically targeted to oilfield employees. The AAS program was established in 2010, with credential and certificate programs added in 2012. The credential (Certificate I) was developed to give entry level oilfield workers all of the industry-specific training required prior to going work.

The Health and Safety field offers graduates many opportunities for employment within Wyoming, regionally, and around the country. Our graduates are currently employed by oil and gas contractors, chemical manufacturers and State agencies. Health and Safety professionals with an AAS from CWC in Wyoming can earn a starting salary as high \$80,000 per year. Average starting salaries are from \$50,000-\$65,000.

Historically our Health and Safety students have been non-traditional, mostly male students who are very experienced in heavy industry, construction and oilfield work. However, most lack any formal education beyond high school. Although college is initially intimidating to many of our students, they often experience great success at CWC. Many of our Health and safety student graduate with a 3.00 and above grade point average.

#### Additional Narrative:

##### Environmental Technician

There have been some changes to the program since its development in 2010, most notably the division of the program in 2014 into a series of core courses plus three Program Options, which were established based on input from the EHS Advisory Committee and from community employers such as Fremont County Weed and Pest and Wyoming Game and Fish. The Program Options (Compliance, Remediation, and Geographic Information Systems) allow students greater flexibility in addressing skills and employer needs that might best align with their backgrounds.

Class sizes for the Environmental Technician program tend to be small (12 or fewer students) to allow better opportunities for direct hands-on field instruction. With the decline in oil and gas activity, student numbers are slightly smaller this year compared to other years, except in Geographic Information Systems (GIS), which appears to be gaining momentum. CWC and other community colleges are working on articulation with the University of Wyoming Geography department to provide direct transfer credit for courses in GIS.

#### **Name of program: Dental Assistant**

CIP Code(s) (six digits): 51.0601

Date this report is presented to the WCCC: September 2015

Academic year review was done: 2014-15

Credential(s) awarded: CERT I, CERT II

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

The CWC Dental Assistant Certificate I & II programs of study are designed to meet the needs of the local workforce demands, and prepare students to take the Dental Assisting National Board (DANB) Certified Dental Assistant exam with further work experience. The program also prepares and provides exam testing for the Wyoming Dental Radiography certification which greatly enhances the student's employability.

Dental Assistant Certificate II (13 credits)

This Certificate II program is designed to prepare a student for an entry-level professional position as a skilled dental assistant. To be a successful employee in the dental assistant profession, a person must have a customer friendly and service orientation, the ability to respect confidentiality, possess eye/hand coordination and dexterity skills, and enjoy working in a team environment. An individual choosing this profession must display a positive attitude and be dependable. This certificate prepares the student for the Certified Dental Assistant National exam.

Dental Assistant Certificate I (31 credits)

This certificate program is designed to prepare a student for an entry-level professional position as a skilled dental assistant. The general education requirements are designed to encourage students to develop computation and communication skills. Additional courses are designed to enhance the employment ability of the student by developing basic bookkeeping skills, interpersonal communications skills, and basic computer skills required in a dental assistant/receptionist environment. To be a successful employee in the dental assistant profession, a person must have a customer friendly and service orientation, the ability to respect confidentiality, possess eye/ hand coordination and dexterity skills, and enjoy working in a team environment. An individual choosing this profession must display a positive attitude and be dependable. This certificate prepares the student for the Certified Dental Assistant National exam.

Additional Narrative:

CWC has a Dental Advisory Committee which provides input to the Dental Assistant program. This committee meets at least once each academic year. The Dental Assistant Certificate programs were developed to meet the needs of local and regional employers, as well as provide the educational requirements that would allow the students to prepare for the Dental Assistant National Board exam.

The program is currently staffed by with two faculty members, one is a certified Dental Hygienist, and the second one is a Certified Dental Assistant.

The college has an up-to-date full "dental operatory" equipped for this program, which allows students the opportunity for developing the critical hand dexterity, radiology equipment, and dental equipment operations.

The enrollee success rate for students in program courses is generally at or above the institutional average for each term. Course sizes are generally limited to 15 students.

**Name of program (or programs in this cluster): Automotive Tech**

CIP Code(s) (six digits): 47.0604

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-2015

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

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

The CWC Automotive Technology program curriculum is built upon ASE (Automotive Service Excellence) standards in order for the program to become NATEF (National Automotive Technicians Education Foundation) certified. The Automotive Tech program curriculum differentiates between fuel systems, emission control system, and diagnostic systems. The faculty is combining these three courses to meet the ASE standards outlined in the Performance and Drivability curriculum.

Upon advisory board recommendation, courses are in the process of being developed for hybrid and electric vehicle technology. Faculty are sent to specialized training in this area and the AFVT 1625 Hybrid and Electrical Vehicle Operational Concepts course was approved by CWC Curriculum Committee in Fall 2014.

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 an Automotive Tech Advisory Committee that provides input to the Automotive program. This committee communicates via e-mail monthly.

The program is currently staffed by with one full-time Bachelors prepared faculty member and an Automotive Lab Supervisor who offers courses in traditional/lab lecture format.

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 15 students. With the addition of new automotive lab facilities, there is room for growth in program majors.

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## *Eastern Wyoming College*

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**Name of program (or program cluster): Agriculture Cluster**

CIP Code (six digits): 01.0102, 01.0104, .0.0303, 01.1106

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: Agri Business and Sciences Associate of Science, Beef Production Certificate, Farm and Ranch Management Associate of Applied Science, Aquaculture Technician Certificate, Rangeland Ecology and Watershed Management Associate of Science

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

The Agriculture Cluster had an average enrollment of 78 students in the last program year. However, the program has grown by over 20 majors in the last five years and is one of our projected growth areas. The number of graduates has also been increasing because of better advising and program planning. Most of the students enrolled in the Ag majors are from Wyoming and surrounding states. Many of the Ag majors also participate on the college rodeo team. EWC has a successful livestock judging team and recently added a show team as well. Goshen County is the #1 Ag producing county in the state. The College is working on building an Agriculture Technology Education Center with funding coming from a recent general obligation bond election and private fundraising. In addition, a \$3 million Wyoming Business Council grant application has been submitted. The projected timeline for a completed project is 2018. The five-year average FTE for the courses in the Ag Cluster is 110.1.

Additional Narrative:

The Agriculture department has well-qualified program faculty member which includes both full-time and part-time members. Their educational backgrounds and real world experiences lend quality to the programming and the curriculum. The classes are taught primarily at the Torrington campus and a few classes have been offered online. The distance delivery of the Ag courses is an area we hope to grow. A couple of the Ag courses are taught concurrently in our service area high schools, but this is not widespread. The Aquaculture Technician certificate program is taught only at the Wyoming Women's Center, WWC, as part of our Department of Corrections partnership. The student/faculty ratio averages 17.0:1. Resources and facilities are adequate.



**Name of program (or program cluster): Art**

CIP Code (six digits): 50.0701

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: ART Associate of Arts

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

The Art Program had a five-year average enrollment of 17 students per year. The number of graduates has been 3 or 4 per year. However, the program provides general education courses in the Arts & Humanities categories and those course enrollments are strong. The five-year FTE average is 82.1; however, the last program year showed an increase to 92.3 FTE. This reflects the increase in enrollment in the art courses.

Additional Narrative:

The Art Department has one full-time well-qualified faculty member and also utilizes several adjunct instructors throughout the service area. The College also has some concurrent enrollment courses with area high schools. The Art Department requires a portfolio presentation for its graduates. These presentations take place in the lobby area of the Fine Arts Auditorium. Students who are interested participate in an Art Club which has been gaining popularity. The Club usually sponsors an annual field trip to an art museum in Denver. The student/faculty ratio averages 9.1:1. Resources and facilities are adequate. The Fine Arts Lobby is scheduled for a renovation in summer 2016. This will include remodeling the area for student demonstrations.

**Name of program (or program cluster): Certified Nursing Assistant**

CIP Code (six digits):

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: none—course only

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

The Certified Nursing Assistant is not a program, but instead a course that is taught to meet the workforce training demand throughout the service area. The College includes it in its regular program review cycle because of this. Partnerships with service area long-term care facilities and hospitals are maintained and necessary. The FTE contribution has a five-year average of 48.0 per year.

#### Additional Narrative:

The College has an experienced full-time faculty member at the Torrington Campus who teaches Certified Nursing Assistant I and II, as well as the Medication Aide Course. She serves as the coordinator for the College with the State Board of Nursing as well as one additional full-time instructor at the Douglas Campus and several part-time instructors in the service area communities. Overall, most of the students pass the Wyoming CNA state exam, although some must take it more than once. The new Career and Technology Education Center (CTEC) will be the new home for the Health Technology classes at the Torrington Campus. The plan is to expand into other course offerings such as phlebotomy. The student/faculty ratio averages 9.3:1. Resources and facilities are adequate.

#### **Name of program (or program cluster): Cosmetology Cluster**

CIP Code (six digits): 12.0401, 12.0407, 12.0409, 12.0410

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: Cosmetology Associate of Applied Science, Hair Technician Certificate, Nail Technician Certificate, Skin Technician Certificate

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

The Cosmetology program is comprised of an Associate of Applied Science degree and three certificates in Hair, Nail, and Skin. The program has a five year average enrollment of 40 students; while the last program year showed 32 students. The program is a steady performer and ably headed by a long-term Cosmetology instructor who also serves as the director. In the last couple of years, only one additional instructor has been part of the faculty. The average FTE provided by program offerings has averaged 80.6 in the last five years. The number of graduates per year has averaged 15. Students perform well on the State Board of Cosmetology exams and find employment in a variety of settings including salons and boutiques. Many go on to become entrepreneurs, and the curriculum requires general education courses which includes Successful Entrepreneurship.

#### Additional Narrative:

The Cosmetology program will move into the new Career and Technology Education Center (CTEC) when it is completed in two years. It will be afforded additional space and will be part of the showcasing on the first floor. Because of legislative changes in the 2015 legislature, EWC is planning on adding a barbering program to its curriculum. This will be developed over the course of the next year and will be a featured part of the new facility. The program is taught only at the Torrington campus and is the only cosmetology program in the state affiliated with a community college. The student/faculty ratio averages 10:1. Resources and facilities are adequate.

**Name of program (or program cluster): Education Cluster**

CIP Code (six digits): 13.1202, 13.1205, 13.1210

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: Elementary Education (Online) Associate of Arts, Elementary Education Associate of Arts, Secondary Education Associate of Arts, Child Development Certificate, Early Childhood Development (Online) Certificate, Early Childhood Education Associate of Arts, Early Childhood Development (Online) Associate of Arts, English as a Second/Foreign Language Teaching Certificate Program

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

The Education programs are comprised of both distance and face-to-face Associate of Arts Elementary Education degrees, a Secondary Education Associate of Arts degree, and Early Childhood Associate of Arts and certificate program. The program has a five-year average enrollment of 104 students. Education majors are spread throughout our service area; especially since the Elementary Education program is available online now. The average FTE provided by program offerings has averaged 85.3 in the last five years. The number of graduates per year has averaged 14. Students in transfer majors often choose Chadron State College or the University of Wyoming. Articulation agreements with both colleges ensure that students transfer with the maximum amount of ease. However, students who are placement bound in Torrington usually choose Chadron State College because of their outreach program to Scottsbluff. Certificate majors in Early Childhood typically enter the workforce in childcare or Headstart/Homestart settings. The online program in Elementary Education is popular with students throughout our outreach area. More and more educators in Wyoming are retiring baby boomers and the employment outlook in the next ten years is positive for education majors.

**Additional Narrative:**

The Education program has two full-time faculty members and numerous adjuncts with a student/faculty ratio of 9.4:1 in the last five year. Efficiencies have been realized since the Elementary Education program has been developed for online delivery. Partnerships with service area public schools and childcare centers have been invaluable as locations for student practicums. The Early Childhood program maintains a community advisory board which meets at least twice a year. Resources and facilities are adequate.

**Name of program (or program cluster): Foreign Language**

CIP Code (six digits): 16.0101

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: Language (Foreign) Associate of Arts

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

The Foreign Language program is an Associate of Arts degree. However, it is seldom that we have any Language majors. Instead, the department provides Spanish and sometimes French to students who need a foreign language for their bachelor's degrees or who wish to take it as an elective. Spanish and/or French are also offered as a concurrent enrollment course in a few of our service area high schools. The FTE contribution has a five-year average of 37.0 per year.

Additional Narrative:

The College has an experienced full-time faculty member who teaches Spanish at the Torrington campus. He also teaches in the English area. Several concurrent/adjunct instructors also teach in the service area high schools. The full-time faculty member serves as a resource to the adjuncts. The College does not require a foreign language for its transfer majors (except for Languages). At this time, Spanish is not offered via distance methods, but this is something that is under discussion. The student/faculty ratio averages 8.7:1. Resources and facilities are adequate.

**Name of program (or program cluster): Interdisciplinary Studies**

CIP Code (six digits): 24.0101

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: **interdisciplinary Studies** Associate of Arts, Associate of Science, and Distance Learning – Associate of Arts and Associate of Science

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

The Interdisciplinary Studies program offers both an Associate of Arts and an Associate of Science degree which includes the general education requirements from Eastern Wyoming College. The two programs represent our most "popular" major because it includes transferrable courses and lets students customize their studies because of its allowance of numerous elective courses. The five-year average for majors is 200 students and the five-year average for graduation is 16 students; however, the last program year reflected 20 graduates. Many of the part-time on-campus and off-campus students choose this as a major and subsequently take longer than the two years to finish a degree. The FTE is difficult to tie to Interdisciplinary Studies since there are not course prefixes entitled as such. However, the Human Development prefix includes the Sophomore Writing course and freshmen foundation courses. These two areas contribute a five-year average of 61 FTE. The Sophomore Writing (aka Sophomore Project) course is the program assessment for the Interdisciplinary Studies

major unless the student has an emphasis area in another discipline such as accounting, business administration, or pre-professional. In these instances, the student is allowed to participate in that discipline area's program assessment.

Additional Narrative:

The full-time faculty who teach primarily transfer courses take responsibility for the Interdisciplinary Studies major. The assignment of the program review falls to the Associate Vice President of Outreach and Learning who then includes statements from these aforementioned faculty members. The major is viewed as a "meta major" of sorts since it is a good option for liberal arts majors or students who are headed toward a science/math emphasis. The advising function is critical for these students and advisors encourage students to decide which transfer institution they are planning on attending so that the maximum ease of transfer can be achieved. In the Human Development course designations, the student/faculty ratio averages 12.6:1. Resources and facilities are adequate, and with the revamping of the general education requirements and the lowering of the Associate degrees to 60 credits, we expect to see graduation rates increasing.

Name of program (or program cluster): Mathematics

CIP Code (six digits): 27.0101, 13.1311, 27.0101

Academic year this report is made: 2014-2015

Academic year review was done: 2014-2015

Credential(s) awarded: Mathematics Associate of Science, Mathematics—Secondary Education, Statistics Associate of Science

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

The Mathematics program includes an Associate of Science degree in both Math and Statistics and the Associate of Arts degree in Secondary Education—Mathematics. The department serves primarily as general education delivery unit; however, the five year average for majors is 4—most of those are in Mathematics education. The FTE is significant with a five-year average of 286.9 per year. The courses include both developmental level and college-level through Calculus III. The higher level courses are sometimes taught as independent studies since the enrollments are often quite small.

Additional Narrative:

The five full-time faculty members who teach in this area are highly qualified and experienced. Four are located at the Torrington campus and one at the Douglas branch campus. They were highly involved in the revamping of the general education requirements and also redesigned developmental math during 2014-2015. The new model will be in effect for fall 2015 and includes fewer credit hours and blocked classes or modules so the students can progress to a college-level math class in their first college year, a goal of Complete College Wyoming. In

addition, the full-time math faculty members act as a resource to numerous adjunct and concurrent instructors. Math is taught at most of the service area high schools. Most of the courses are also taught as online courses, hence improving service to the outreach students and others. The student/faculty ratio averages 12.3:1. Resources and facilities are adequate.

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## *Laramie County Community College*

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### **Name of program (or programs in this cluster): Automotive Technology**

CIP Code(s) (six digits): 47.0604

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014-2015

Credential(s) awarded: Certificate/Associates of Applied Science

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

The automotive program prepares students to effectively enter the workforce in the field of automotive repair. We maintain classes in accordance with ASE (Automotive Service Institute) and NATEF (National Automotive Teachers Education Foundation) in order to maintain a quality level of education to meet and exceed the expectations of industry. The automotive program meets or exceeds the mission and vision statements set forth by LCCC.

Our accrediting body, NATEF, updates curriculum every year by adding important industry changes labeled as (P=Priority) P-1, P-2 and P-3 on the task list. NATEF also requires 20 hours professional development every year. This new and up-to-date training ensures that our graduates leave with the latest information about how to best repair today's automobiles. Our advisory committee that consist of active partners in the community also help in the design of course structure. We meet once per semester and our program director and school dean are present and make changes recommended by the advisory committee, if needed. Continuous improvement along with NATEF's updating curriculum assures success for our graduates. In addition, another partner, NAPA (National Auto Parts Association) has come to LCCC to make guest presentations.

The Automotive program also uses student assessment in at least one class per semester. This enables us to react to student needs quickly and in a timely manner for each semester to provide a better learning environment for our students. Recently, we were told that the student assessment was moving to an online assessment which will enable the students to assess each class as they complete them instead of just one class per semester. As a result, even more fluid changes in the curriculum and faculty teaching styles can be made to enhance students' learning experiences.

Although student placement rates are deemed inconclusive due to very low response rates on alumni surveys, data shows the award of five (5) Associate of Applied Science degrees and 77 certificates from 2003 to 2014. Furthermore, the Automotive Program also supports

Skills USA which enables students to compete in 1 of 20 or more different areas that covers more than just vocational fields. The Skills USA club competes at the State Conference each year, where our chapter has taken first place in Automotive Technology five (5) years running. Furthermore, we won a gold medal at Nationals in Quiz Bowl, in Kansas City Missouri in June 2014.

**Name of program: Dental Hygiene**

CIP Code(s) (six digits): 51.0602

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014 – 2015

Credential(s) awarded: Associate of Applied Science

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

The mission of the Dental Hygiene Program at Laramie County Community College is to prepare graduates for entry-level positions as licensed dental hygienists. The mission and goals are supported by program competencies designed to ensure that program goals are successfully met by students. LCCC is located in the southeast corner of Wyoming where there is availability of liaison activities and relationships that supplement faculty development and provide professional development opportunities for students.

The LCCC dental hygiene program seeks to prepare highly qualified graduates equipped for success in the workplace and in the community. It values educational excellence, use of current and relevant content and technologies and value the input of the community for success.

The program strives to develop mutually beneficial interactions with the local community and prepare students for civic engagement and community service by actively participating in service learning opportunities.

Program competencies taught to students are entry level abilities that are needed to begin dental hygiene practice. These competencies are supported by content in general education, the biomedical, dental and dental hygiene sciences. The following are a list of competencies students from LCCC Dental Hygiene Program will graduate with:

1. Demonstrates ethical and professional behavior by:
  - a. Focusing on the patient's needs
  - b. Functioning as a member of the dental health team
  - c. Adhering to a published Dental Hygiene Code of Ethics
2. Apply preventive and therapeutic dental hygiene care for a child, adolescent, adult, geriatric, and special needs patient by:
  - a. utilizing the most current infection control guidelines and safety precautions
  - b. assessing, planning, implementing and evaluating dental hygiene care
  - c. involving the patient in treatment decisions

- d. receiving patient consent
  - e. applying comprehensive dental hygiene therapy including patients who exhibit moderate to severe periodontal disease
  - f. providing appropriate life support measures for medical emergencies
3. Demonstrate critical thinking and effective communication skills by:
- a. communicating effectively with patients, colleagues, other health care workers, and community resource people
  - b. applying principles of quality assurance and self-evaluation and documenting dental hygiene services correctly
4. Promote the values of the profession and for life-long learning by:
- a. advancing the profession through leadership, service activities, and affiliation with professional organizations
  - b. reading, interpreting, evaluating, and applying research findings
  - c. participating in continuing education experiences

The LCCC Dental Hygiene Clinic serves many patients on an on-going basis as they often return yearly for regular care. Students attend the Wyoming Dental Hygienists' Association meeting each year, and partner in a variety of events including, the Give Kids a Smile event and the COMOM Mission of Mercy to name a few.

The Dental Hygiene Program has an Education Affiliation Agreement established with Cheyenne Health and Wellness (CHW), partnering to provide no or low-income community members with dental hygiene and preventive services and limited dental care. Students also rotate at PACE, Cheyenne Regional Medical Center, a non-profit health and supportive services program designed to assist seniors who want an alternative to long-term care placement. Dental hygiene care and education services were provided to the aging population needing care.

Additional activities accomplished included participation in service learning, health fairs, screenings, community clinics and community in-service and educational presentations. These activities were conducted through the Student Chapter of the American Dental Hygienists' Association.

Additional Narrative:

Employment rates (Full-time (4 days/wk) within 9 months) for students completing the program from 2009 – 2012 average 96%.

National Board Dental Hygiene Pass Rates (written board exam) average 98%.

Regional Clinical Board (clinical board exam) Pass Rates average 87%.



The Dental Hygiene Program Advisory Board meets two times each year and makes recommendations on the curriculum, workforce needs, and new partnerships. The advisory board has recommended continuing education be offered to regional dental professionals.

**Name of program (or programs in this cluster): Heating, Ventilation and Air Conditioning /Refrigeration (HVAC/R)**

CIP Code(s) (six digits): 47.0201

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014-2015

Credential(s) awarded: Basic and Advanced Certificate/Associates of Applied Science

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

The HVAC/R Program is focused on working with industry partners within the community to provide students with a flexible, inspired curriculum that can change with technology, motivating program participants to be competitive in the HVAC/R job market. The program's mission and vision statement is aligned with the workforce development portion of LCCC's mission statement. Although student placement rates are deemed inconclusive due to very low response rates on alumni surveys, data shows the award of two (2) Associate of Applied Science degrees and nine (9) certificates since the establishment of the HVAC/R Program.

The HVAC/R Program was developed using input from local industry partners and subject matter experts through the HVAC/R Advisory Committee, as well as collaboration with other schools through the Building Efficiency for a Sustainable Tomorrow (BEST) Center. The underlying structure of the curriculum is designed with the intent for the course material to be relevant, yet flexible in order to meet industry needs as technology advances. A good example of using industry input to ensure program relevance is the incorporation of new American Society of Heating and Air Conditioning Engineers (ASHRAE) standard for ventilation air changeover for new residential structures into the HVAC curriculum. The certificate programs are stacked to lead to both certification as a journeyman HVAC/R technician and an AAS in HVAC/R.

The HVAC/R program must have a flexible curriculum that has the ability to change to keep up with the demands of industry, as well as keep pace with innovation within the industry. To accomplish this, the program must maintain a strong advisory committee, as well as participate in national workshops and conference. This will allow program graduates to remain competitive in the workforce.

The HVAC/R Program Advisory Committee meets twice a year and is comprised of local industry partners as well as representatives from K-12 education, and apprenticeships. The committee members provide feedback about students they have employed who have completed an HVAC/R certificate or AAS degree. From the aforementioned feedback, there have been instances where areas for improvement have been identified. An example of this feedback having a direct result on the HVAC/R program is the re-structuring initiative that began in the spring meeting of 2014. During the meeting, industry partners agreed that they

were starving for qualified technicians and two years was too long to wait for them. During the next two meetings, the committee developed the stacked certificate program that was designed to get students working after sixteen weeks with the intent of continuing their education after employment. In addition, active partner such as Mister B's and Advanced Comfort Solutions have donated equipment to the program.

**Name of program: Emergency Services, Paramedic Program**

CIP Code(s): 51.0904

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014-2015

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

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

This program was created in 2004 with the help of the City of Cheyenne (Cheyenne Fire and Rescue). The city had a desire to add paramedics to their fleet of fire engines to provide a higher level of care to the citizens of Cheyenne. In collaboration with Mary Ellen Tast and the Workforce and Community Development Division, a program was born. After the initial offering and supplementation of the city's needs, the program was able to continue the Paramedic Program on a yearly basis to meet community needs and student interest. Cheyenne Fire and Rescue and American Medical Response continue to support personnel attending the paramedic program to meet future demands of their agencies. The success of the initial program spawned several other ancillary courses. EMT-Basic, EMT-Intermediate and CPR courses are now available at LCCC. CPR is now offered on a weekly basis and the Emergency Services Program is also an American Heart Secure Training Site. In 2008, Patrick Currie, Program Manager, created Wyoming's first degree for Emergency Medical Service Providers. EMS students now have the option to obtain an Associate of Applied Science degree in Emergency Medical Services in addition to their certifications.

The program was also the first EMS (Emergency Medical Services) program in Wyoming to become accredited. The program was initially accredited by CAAHEP/CoAEMSP in 2010 and recently underwent another successful re-accreditation site visit in 2015.

The goal of the Laramie County Community College Paramedic Program is to prepare competent entry level EMT-Paramedics in the cognitive, psychomotor, and affective EMS learning domains. The program strives to develop individuals to enter or advance in the Emergency Medical Services workforce fulfilling their goal of becoming a paramedic. Graduation rates are above 95% and placement rates are at 100%.

The EMS curriculum is designed around the National Standard Curriculum and best practices as evidenced by the program's outstanding completion rates, student achievement on licensure exams and employment rates. The program follows strict external accreditation guidelines to provide the community with the most well prepared paramedics possible. The program is meeting the community need for EMS personnel as reported by hiring agencies and the EMS

advisory committee. The program's advisory committee guides the program with bi-annual meetings and can respond immediately to State and local needs. The committee has two positions that are filled by two of the largest EMS Employers in the area, American Medical Response and Cheyenne Fire and Rescue. Along with input from previous graduates and other outside agencies the committee can adapt to the needs of the region and beyond.

#### Additional Narrative:

The program continues to grow and diversify. In 2013 the program expanded the delivery method of lectures to a streaming online live format to allow for students from all over Wyoming to attend classes. The classroom labs were also condensed to help with student travel to and from Cheyenne. Clinical sites continue to expand allowing students more options closer to home to complete the clinical portion of the program. Due to these changes, our program has had the highest enrollment since its inception.

All paramedic students who are accepted into the program also get to experience some of their clinical time in Oklahoma City, OK. This is unique to our program due to our close relationship with one of our clinical sites, EMSA (Emergency Medical Service Authority). The program sends all the students to Oklahoma at the start of their "field time" to experience a metropolitan EMS service. This exposes the student to many different patient demographics, shows them a wide variety of EMS skills and services and exposes them to a large volume of patients in a two week time span. The student then can bring this knowledge and experience gained back to their smaller home town EMS services to provide the best advanced care possible to their own community members upon program completion. The program has been sending students to Oklahoma City since 2009 to enhance their educational experience.

The program also boasts instructors who are all currently working as paramedics (including the Program Manager) from a variety of local agencies. This ensures current up to date material is being delivered to our students and allows the students to network with instructors and can assist with employment after program completion.

#### **Name of program: Surgical Technology Program**

CIP Code(s) (six digits): 51.0909

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014-2015

Credential(s) awarded: Associate of Applied Science

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

The role of the Surgical Technology Associate of Applied Science degree program is to prepare competent, entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains. Graduates of the program will be able to apply fundamental theoretical knowledge in the practice of surgical technology; acquire and evaluate emerging surgical knowledge; effectively and safely manipulate surgical equipment,

instruments and supplies; consistently maintain sterile techniques; demonstrate the ability to maintain a stable emotional state, even under stressful conditions, which enables the effective use of reason and good judgment in patient care situations; and demonstrate the formation of a strong sterile conscience.

The Surgical Technology Program, at LCCC, is the only ST Program in the State of Wyoming. The Director has been working with Cheyenne Regional Medical Center, Mountain View Medical Center, Ivins Memorial Hospital, and other hospitals across the state. There have been multiple requests for our upcoming students and graduates. The demand is high for Surgical Technologists, as well as other closely related perioperative fields.

The program has limited enrollment and admits one class each fall. The prerequisite courses must be completed or in progress prior to application for program admission. Once the student has been accepted, the Hybrid 11-month surgery core program begins. During the second and third semesters the students are assigned to clinical sites, in actual patient care settings, to provide them with a variety of learning opportunities.

In order to align with the student's needs, this year's program has been redeveloped into a Hybrid program. This allows the students the opportunity to complete all of the didactic (theory) training online and includes an all-day Lab (hands on) session, at the College, once a week. Future plans would include the ability to offer the hands on Lab in other locations throughout the state.

Because of low enrollment rates and inability to find a Director, the Surgical Technology Program was inactive during the 2014-2015 academic year. It was determined that a change in format was necessary to be able to recruit more students, as was the recruitment and hiring of a Director/Instructor for the program. A new Director was hired in May of 2015. Much of her time was spent forming an advisory committee and recruiting students for the 2015-2016 Program. The members of the advisory committee include employers, physicians, students, peer technologists, prior students, and educators. The Director made guest appearances on radio stations and reached out to the hospitals throughout the state to advise them that the Program was reactivated and has students enrolled.

It was apparent that there is a definite need for Surgical Technologists in our state. From 2010-2014, the average enrollment was 7 students. The average graduation rate was 82%. The average pass rate for certification was 83%. Of those that passed the certification exam, 92% were employed. Beginning this fall, the enrollment has shown an overall increase in interest and currently has 9 students enrolled. The Program is accredited for cohorts of 18. We anticipate that, with the Program modifications, recruiting, and the support of the advisory committee, our enrollment will continue to grow. There are approximately 6 students currently working on the prerequisite courses to enable them to apply for the Fall 2016 cohort.

The advisory committee, Program Director, and LCCC administrators concur that, in addition to the change in format for the existing Program, the idea of a Perioperative Services Program, which would oversee a number of disciplines for employment, badly needed in the state. These would include a Central Processing Certificate Program, an Anesthesia Technologist Program, a Surgical Technology Certificate program (along with the current Surgical Technology Associate Degree, Alternate Delivery, and Degree completion programs), and a Surgical Assistant Program.

The Director is working with hospital administrators throughout the state to ensure that the students will have the skills and knowledge needed to provide optimal care to their patients.

### **Name of program (or programs in this cluster): Technical Studies**

CIP Code(s) (six digits): 47.9999

Date this report is presented to the WCCC: October, 2015

Academic year review was done: 2014-2015

Credential(s) awarded: Associate of Applied Science

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

The Technical Studies Associate of Applied Science degree is intended for individuals who desire to build upon a Department of Labor-recognized apprenticeship training program, or the completion of the technical core for the award of the United States Air Force Community College of the Air Force (CCAF) degree. The Technical Studies degree demonstrates knowledge, skills and competencies in the field of apprenticeship training and as the technical foundation of the CCAF degree. Students will complete course work in the general education core and a selection of management courses to complete the degree program. Students will be advised and their apprenticeship or CCAF technical core will be evaluated for the award of credit on an individual basis.

Given the absence of student graduation and placement rates related to the old program, the aforementioned information describes a technical program that was revised to be multi-dimensional in addressing the needs of students. The Technical Studies program prepares students to effectively enter the workforce with the added credential of an associate's degree. The program offers a pathway to a degree for people that may not have otherwise considered completing college. The LCCC Technical Studies program operates as a part of the Integrated Systems Technology section of the College and offers a technical, systems-based approach in training technicians for gainful employment in the industrial-maintenance workplace. In a "hands-on" environment, students actively expand their knowledge and apply skills in pursuit of successful careers, transforming their lives, enhancing the community and meeting industry needs through inspired learning.

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## *Northwest College*

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**Name of program (or programs in this cluster): Aviation (Aeronautics)**

CIP Code(s) (six digits): 49.0101

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AS

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

Students will complete academic coursework and flight training toward an Associate of Science degree in Aeronautics and a commercial pilot certificate. Students who successfully complete the program can use it for transfer to a four-year college or as a terminal degree which would qualify them for a variety of entry-level positions in the aviation industry. This program combines a foundation of general education with technical studies in flight training. Students will earn private pilot and commercial pilot certificates with instrument and multi-engine ratings.

**Name of program (or programs in this cluster): Photography (includes Photographic Communications, Basic Photographic Imaging, Basic Digital Imaging, and Photographic & Digital Preservation Specialist)**

CIP Code(s) (six digits): 50.0406

Date this report is presented to the WCCC: October 2015

Academic year review was done: 2014-15

Credential(s) awarded: AAS, CERT

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

The Photographic Communications Program prepares students for a career in professional photography. Areas of commercial photography emphasis include studio illustration, portraiture, new digital media, and photojournalism.

With the latest in multimedia and digital technologies combined with traditional and historical processes, this all-encompassing program provides students with a wide array of skills as they develop a personal photographic vision.

From academic to professional endeavors, our full-time faculty bring into the classroom their expertise in this fast-paced, ever-changing industry. Then through project-based assignments and a hands-on approach, students learn real world visual problem solving.

The framework of the program also incorporates courses in business and general education to better prepare the student for a successful career in photography. For the applied science degree in photographic communications, students must complete both the General Education Requirements and the Core Courses.

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## *Northern Wyoming Community College District*

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### **Name of program: Dental Hygiene**

CIP Code(s) (six digits): 51.0602

Date this report is presented to the WCCC: September 15, 2015

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

Credential(s) awarded: Associate of Applied Science

The NWCCD Dental Hygiene program prepares students for dental hygiene licensure and practice. Students obtain an Associate of Applied Science, and may choose to obtain a Bachelor of Science degree through a cooperative agreement with the University of Wyoming. The program is based on the Sheridan College campus. The curriculum is continually evaluated to ensure it meets CODA accreditation standards (Commission on Dental Accreditation) and current standards of care for the profession. The advisory board, comprised of dentists and dental hygienists, meets twice a year to discuss the program and the profession. They provide advice on admittance criteria and curriculum and give valuable feedback to the program staff. Dentist employers are surveyed annually to collect feedback on how well Sheridan College graduates are prepared for employment and to solicit advice on areas that need modification or improvement. Graduates are surveyed one year post-graduation to determine how well their education prepared them for employment. Dental hygiene graduates must take and pass several examinations prior to licensure, including a national written board, a regional clinical board and a state jurisprudence exam. Results of these board exams are used to evaluate the curriculum.

Graduates of the program are able to find employment readily and earn an annual salary of approximately \$50,000-70,000. Market demand is favorable for employment, but salary is dependent on supply and demand. Our service area includes Wyoming, western South Dakota and southeastern Montana and Sheridan College dental hygiene graduates are in demand in all these areas.

**Name of program: Diesel Technology**

CIP Code(s) (six digits): 47.0605

Date this report is presented to the WCCC: September 15, 2015

Academic year review was done: 2013-2014

Credential(s) awarded: Certificate of Completion, Associate of Applied Science

The NWCCD Diesel Technology programs seek to prepare students for entry level positions in the diesel power industry. Students can obtain a certificate of completion or and AAS degree or both. Students will have the opportunity to learn a wide ranges of subjects and develop a wide range of hands on skills in the program. Subject matter is carefully chosen to align with local industry needs and in addition to the formal program self-study, industry advisory boards meet at least twice each year to evaluate the program, discuss changes and provide valuable feedback to the instructors. Students in the program also have opportunity, through the respective diesel clubs, to attend and compete in the annual SkillsUSA leadership and competition conferences. Students from NWCC routinely place very high in state-wide competitions and have also had very respectable finishes at national competitions.

Industry is heavily invested in the Diesel Technology programs at NWCCD as they donate valuable time on advisory boards, design the statewide SkillsUSA competition and judge the competition. Many of our students work in industry as they complete their formal schooling and placement of graduates remains high with students who desire to work in local industry being successful in their job searches.

Graduates of this program are able to enter the job market and help to bolster the local labor force. This, in turn, helps companies remain competitive and provide jobs, services and contribute to the state tax base.

**Name of program: Health Science**

CIP Code(s) (six digits): 51.0000

Date this report is presented to the WCCC: September 15, 2015

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

Credential(s) awarded: Associate of Science

The NWCCD Health Science program is designed for those who wish to find employment in the field of health care upon completion of the program, or who wish to transfer to pursue a bachelor's degree. This is also a good choice for students completing their general education requirements awaiting admission into the Dental Hygiene or Nursing program.

Graduates of this program are able to enter the job market in entry level healthcare positions (admission clerk, reception, business office) or as an emergency medical responder.



Employment in healthcare remains strong and helps to reinforce the local, regional, and state labor market.

**Name of program: Survey Technology**

CIP Code(s) (six digits): 15.1102

Date this report is presented to the WCCC: September 15, 2015

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

Credential(s) awarded: Associate of Applied Science

The Surveying Technology Associates of Applied Science is a collaborative program with the University of Wyoming. The curriculum emphasizes drafting, field computations, survey law and legal applications, as well as provides a general education towards the completion of an associate's degree. Upper-level surveying courses are offered through the UW's Outreach program as part of UW's Certificate in Cadastral Surveying. UW's courses articulate with the NWCCD program to meet degree requirements.

Surveying specific course work developed by the UW Land Surveying Program (LSP) is developed in response to industry needs and specific areas of study required by State Board of Registrations for Professional Engineers and Professional Land Surveyors. The Land Surveying Advisory Board provides general oversight and direction for the LSP. The Boards of Registration provides regular, candid feedback on the performance of Wyoming students and on the actual coursework. The UW LSP is very sensitive and responsive to Board of Registration requests for changes in surveying specific course work or program changes. The UW LSP is responsible for the surveying specific course work and NWCCD is responsible for general course work. The general education requirements for the AAS degree are defined by NWCCD's Curriculum and Standards governance committee.

The Surveying Technology AAS provides students the opportunity to gain the required credential to sit for the State of Wyoming surveying licensure exam. The majority of Surveying Technology students are working on surveying crews. They generally have families and are not able to leave their jobs and attend an on-campus program. They desire to become licensed as Land Surveyors to increase their income potential, employability, and at the request of their employers. The distance learning UW LSP classes and NWCCD classes are their only realistic shot to meet these goals and get ahead in life.

**Name of program: Mining Technology, Mine Management, Mine Safety & Technology, Industrial Operations Management**

CIP Code(s) (six digits): 15.0901

Date this report is presented to the WCCC: September 15, 2015

Academic year review was done: 2014-2015

Credential(s) awarded: Certificate of Completion, Associate of Applied Science

This program was created with assistance from a Department of Labor Grant. The purpose of this program is to create a means for working adults, especially those who may have joined the workforce at a young age, to obtain the knowledge, skills and credentials that may help them to find advancement within their place of employment. The program provides three certificates which are stackable to obtain an AAS degree. The format of the program is geared toward those who are in the workforce and the schedule is purposely designed to meet the need of those who work rotating shifts.

This program enjoys local industry support as many companies have worked to help student attend by offering financial reimbursement for students who successfully complete, providing support by allowing tours and industry experiences and providing instructors to help in teaching some of the classes. The program offers both face-to-face classes and on-line classes in an attempt to better meet the needs of the students.

The end result for a student who is successful in completing the program would be earning each of the three certificates (Mine Management, Mine Safety & Technology and Industrial Operations) and the AAS Degree in Mining Technology. This program has a high retention and completion rate, though some students do take longer than the designed three years to complete as they balance full time employment, families and other outside responsibilities.

**Name of program: HVAC Apprenticeship**

CIP Code(s) (six digits): 47.0201

Date this report is presented to the WCCC: September 15, 2015

Academic year review was done: 2014-2015 (with establishment of program)

Credential(s) awarded: Certificate of Completion

The HVC apprenticeship program is a certificate program designed to meet the needs of professionals working in the HAVC industry. The students in the program are almost exclusively working adults who are working journeymen. The program is designed as the educational supplement to on the job experience. Students in this program work full time in industry and attend schooling in the evenings.

This program serves to give earned educational credentials to students for the time and effort the students expend in a formal learning program. The end result for the students is an opportunity to receive journeyman status at the conclusion of the program. This program has a strong industry partnership with all of the instructors coming from industry to teach in the program. The program serves to meet the needs of the State of Wyoming, the public and industry by providing further preparation for technicians in the HVAC industry.

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## *Western Wyoming Community College*

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### **Name of program (or programs in this cluster): Automotive Tech**

CIP Code(s) (six digits): 47.0604

Date this report is presented to the WCCC: October 2014

Academic year review was done: 15-16

Credential(s) awarded: AAS.AUTOMOTIVE TECHNOLOGY, AUTOMOTIVE TECHNOLOGY CERTIFICATE

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

The purpose of the Automotive Technology Department at Western Wyoming Community College is to provide the willing student an opportunity to learn the skills necessary to become an effective and successful automotive technician. Working closely with the Automotive Advisory Committee the program is also tailored to meet the needs of local industry as well as any other modern auto service and repair facility.

The program not only provides students with a valuable skill set, but it also provides them with something that they can build upon academically speaking, Since the associate degree in Automotive Technology from WWCC's Automotive technology program will transfer to four year institutions where a higher degree in automotive technology can be obtained.

In addition to traditional paths within automotive technology, students also have the opportunity to get a certificate in Alternative Fuel Vehicle Technology. This helps them to learn about the latest emerging technologies that are currently found in the market.

Every part of the program is designed to meet the needs of the students and local industry but it must all be according to standards that satisfy Universities with which we articulate, and the National Automotive Technician's Education Foundation (NATEF) from whom we receive accreditation.

### **Name of program (or programs in this cluster): Diesel Technology and CDL**

CIP Code(s) (six digits): 47.0605

Date this report is presented to the WCCC: October 2014

Academic year review was done: 15-16

Credential(s) awarded:

AAS.DIESEL & HEAVY EQUIPMENT TECHNOLOGY

DIESEL & HEAVY EQUIP TECH CERTIFICATE

DIESEL TECHNOLOGY CERTIFICATE

DIESEL TECHNOLOGY WITH CDL CERTIFICATE

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

The purpose of the Diesel and Heavy Equipment program at Western Wyoming Community College is to prepare program students to be engaged, knowledgeable, entry level technicians for the many heavy highway truck, mining and extraction, construction, and other industries in Wyoming that need to use and maintain diesel powered equipment. To this end, we strive to provide as realistic and current a learning environment as possible, and compare our tasks and equipment to local industry's needs and future directions.

In addition, we respond to local employer's needs by developing and delivering specialized training for their employees already in the workplace.

**Name of program (or programs in this cluster): Extractive Technology**

CIP Code(s) (six digits): 15.0903

Date this report is presented to the WCCC: October 2014

Academic year review was done: 15-16

Credential(s) awarded:

AAS.NATURAL GAS COMPRESSION TECHNOLOGY

AAS.OIL & GAS PRODUCTION TECHNOLOGY

NATURAL GAS COMPRESSION TECHNOLOGY CERTIFICATE

OIL & GAS PRODUCTION OPERATOR CERTIFICATE

AAS.INDUSTRIAL MAINTENANCE TECH.

INDUSTRIAL MAINT CERTIFICATE (MECH/WELDING)

MAINTENANCE MECHANIC CERTIFICATE FOR INDUSTRY

POWER PLANT MAINTENANCE MECHANICS CERTIFICATE

AAS.INDUSTRIAL HEALTH & SAFETY

AAS.MINE MAINTENANCE TECHNOLOGY

ELECTRICAL MINE MAINTENANCE CERTIFICATE

SURFACE MAINTENANCE MECHANICS CERTIFICATE

UNDERGROUND MAINTENANCE MECHANICS CERTIFICATE

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

Extractive Technology exists as a group of programs including Natural Gas Compression Technology, Oil and Gas Production, Industrial Maintenance and Mine Maintenance.

The **Natural Gas Compression Technology program** is designed to prepare the student for employment in the natural gas compression industry. The student will acquire the ability to troubleshoot, repair and maintain compression equipment as a result of lecture and hands-on training in compression theory, pneumatics, compressor mechanics, gas engine mechanics, electric motors, precision measuring, alignment, vibration analysis, oil analysis, balancing and safety. The student will also receive training in related industrial technology courses. A

graduate of this program with a one-year certificate or two-year degree will be a valuable asset to the natural gas compression industry. The Gas Compression Program at WWCC strives to produce graduates that not only have the technical skills needed by industry but also the communication skills required by today's workplace.

The **Oil and Gas Program** serves a number of purposes within our community:

- It provides full-time students with the opportunity to learn and develop the skills necessary to begin a career in the oil and gas industry.
- It provides working students with the opportunity to enhance current skills and gain certifications in order to advance their present careers.
- It provides the opportunity to students who complete Oil and Gas Production Technology program to fulfill the requirements to earn an A.A.S. Degree or Certificate.
- It accommodates working students by providing a flexible 5-week block schedule; this schedule also allows local employers to send their employees for more convenient five week blocks; those students can then return to work to practice what they have learned.

Our mission is to train students for employment in industry, including safe work practices, troubleshooting, and operating field production equipment.

The **Industrial Maintenance/Mining Maintenance Program** serves a number of purposes within our community:

- It provides full-time students with the opportunity to learn and develop the skills necessary to begin a career in the Industrial Maintenance and the Mining Maintenance Technology fields.
- It provides working students with the opportunity to enhance current skills and gain certifications in order to advance their present careers.
- It provides testing and training for local industry based on standards set by their corporations.
- It provides the opportunity to students who complete Industrial Maintenance/Mining Maintenance Technology programs to fulfill the requirements to earn an A.A.S. Degree or Certificate.
- It accommodates working students and shift workers by providing a flexible 5-week block schedule; this schedule also allows local employers to send their employees for more convenient five week blocks; those students can then return to work to practice what they have learned.

Our mission is to train students for employment in industry, including safe work practices, troubleshooting, and repairing and maintaining equipment.