



## Wyoming Community College Commission 2017-2018 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 W.S. 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 the colleges' program review processes with additional current data along with other pertinent program-specific information. All of 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 created 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) is for program reviews reported to the WCCC that academic year. This document contains yearly updated information to include the previous academic year.

### Part B

The 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, and/or capacity to improve/advance the program. However, these reviews are designed to be brief and to only address a few of these topics.

The complete report will be posted to the WCCC website under "Reports". The 2018 program reviews or cluster of program reviews reported to the WCCC include:

- Administrative Assistant
- Agriculture
- Anthropology
- Art
- Assistive Technology
- Auto Body Technology
- Biology
- Communication
- Cyber Security
- English
- Medical Lab Technician
- Nursing
- Nutrition
- Pharmacy Technology
- Psychology
- Respiratory Therapy Technician
- Speech
- Veterinary Technology

Academic Year Reported: AY 17-18	Casper College														
Casper College Program Name	Office Management	Agriculture	Anthropology	Art	Assistive Tech	Auto Body Technology	Biology	Cyber Security	English	Medical Lab Tech	Nursing	Nutrition	Pharmacy Tech	Respiratory Therapy Tech	Robotics Technology
CIP code(s)	52.0204	1.0000; 1.0101; 1.0802; 1.0901; 1.1106	45.0201	50.0701	51.2312	47.0603	26.0101	11.1003	23.0101	51.1004; 51.1009	51.3801	30.1901	51.0805	51.0908	15.0405; 14.0506
Name of credential(s)	OFFICE.AAS; OFFICE.CER	AGRI;AS; AGRIBUS.AAS; AGRIBUS.AS; AGRICOMM.AS; ANSC.AAS; ANSC.AS; RANGE.AS	ANTH.AA	ART.AA	ASSISTIVE TECH.CER	AUTOBODY.AAS; AUTOBODY.CER	BIOL.AS	CYBERSECURITY.AAS; CYBERSECURITY.AS; CYBERSECURITY.CER	ENGL.AA; ENGL.TEACH.AA; ENGL.WRITE.AA	MLTK.AS; PHLB.CER	NURS.ADN; NURS.AAS - Deactivated; NURS.AS - Deactivated	NUTRITION.AS	PHTK.AS; PHTK.CER	RESP.AS	ROBOT.AAS; ROBOT.CER; AUTOMATION.CER (Sunsetting programs)
Active Partnerships (Yes/No)	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Name of specialized accreditation organization (if applicable)	No	No	No	Nat'l Association of Schools of Art and Design	No	No	No	No	No	National Accrediting Agency for Clinical Laboratory Sciences	Accreditation Commission for Education in Nursing	No	American Society of Health-System Pharmacist	Commission on Accreditation for Respiratory Care	No
Active Advisory Committee (Yes/No)	Yes	Yes	No	No	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes
Offering mode(s) (trad. (T), distance (D) or hybrid (H))	T,D,H	T,D,H	T,H	T	T	T	T,H	T	T,H	T	T	T,H	T,H	T	T

Academic Year Reported: AY 17-18		Casper College														
Casper College Program Name		Office Management	Agriculture	Anthropology	Art	Assistive Tech	Auto Body Technology	Biology	Cyber Security	English	Medical Lab Tech	Nursing	Nutrition	Pharmacy Tech	Respiratory Therapy Tech	Robotics Technology
Course Prefix		ACCT; BADM; BOTK; CMAP; COSC; IMGT; INET; MGT	ACCT; AECL; AGECE; AGRI; AGTK; ANSC; BADM; BANK; BIOL; CO/M; CROP; FDSC; MATH; REWM; SOIL; STAT	ANTH; RELI; SOC; STAT	ART	HLTK; SOC	AUBR; WELD	BIOL; CHEM; MATH; PHYS	COSC; CSCO; CSEC; IMGT; INET	CO/M; ENGL	BIOL; CHEM; MATH; MLTK; MOLB	CMAP; HMDV; HLTK; NURS	ECON; BIOL; CHEM; CO/M; FCSC; MATH; PSYC; SOC	HLTK; PHTK	HLTK; RESP	DESL; ELTR; ENTK; MCHT; ROBO; WELD
<b>Credit hour enrollment in courses with the course prefix for the past five academic years</b>	AY 17-18	4178	16867	2619	1877	2402.3	1524	12464	1503	7262	13288	4021	18911	1520.3	1903.3	4203.5
	AY 16-17	4077	17812	2555	1868	2433.2	1494	13279	1512	7762	13845	3381	19975	1590.2	1970.2	4277
	AY 15-16	4891	17797	2920	1766	2286.3	1276.5	12935	1647	7463	13505	2951	19388	1392.3	1579.3	4163
	AY 14-15	4903	18552	2838	1867	2570.7	1270.5	13258	1558	7218	13793	2999	19933	1813.7	1794.7	3993.5
	AY 13-14	4980	20137	2642	2256	2759.9	1346.5	14975	1513	8441	15439	3051	22541	1937.9	1964.9	4262
<b>Number of declared majors for the past five academic years</b>	AY 17-18	14	200	15	18	4	27	75	0	68	109	160	20	17	30	11
	AY 16-17	15	197	10	20	0	21	79	0	64	100	162	22	23	32	17
	AY 15-16	12	186	9	22	1	21	69	0	0	87	177	26	27	35	14
	AY 14-15	10	172	2	20	2	17	73	0	53	70	193	17	41	24	15
	AY 13-14	13	267	5	82	5	25	114	0	110	96	219	28	70	49	21
<b>Number of program graduates (and/or certificate earners) for the past five academic years</b>	AY 17-18	5	35	0	2	2	4	9	0	8	23	44	1	1	11	1
	AY 16-17	0	38	0	1	3	7	7	0	5	32	35	1	6	11	5
	AY 15-16	0	34	0	0	3	3	9	0	2	27	41	0	5	7	3
	AY 14-15	1	39	1	1	2	1	11	0	4	20	47	4	13	5	4
	AY 13-14	3	32	0	4	3	7	4	0	10	21	48	0	2	9	3
<b>Number of community college service area resident program graduates for the past five years</b>	AY 17-18	4	4	0	2	2	2	7	0	4	7	32	1	0	7	0
	AY 16-17	0	6	0	1	2	3	7	0	4	14	19	1	3	7	5
	AY 15-16	0	6	0	0	0	1	5	0	2	17	26	0	5	6	3
	AY 14-15	1	4	1	1	1	1	9	0	4	8	32	2	9	2	3
	AY 13-14	2	3	0	2	2	4	4	0	6	7	32	0	1	6	1



Academic Year Reported: AY 17-18		Central Wyoming College						
Program name or program cluster name that includes....		Administrative Assistant	Agriculture	Anthropology	Art	Biology	English	Nursing
CIP code(s)		52.0401 52.0407 52.0408 52.0411	01.0101 01.1106	45.0201	50.0101 50.0406 50.0701	03.0104 26.0101 40.0101 40.0601	23.0101	51.3801 51.3902
Name of credential(s)		AAS CERT I CERT II	AS AAS CERT I CERT II	AA	AA AAS CERT II	AS	AA	AAS ADN CERT II
Active Partnerships (Yes/No)		Yes	Yes	Yes	Yes	Yes	No	Yes
Name of specialized accreditation organization (if applicable)		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Active Advisory Committee (Yes/No)		Yes	Yes	Yes	Yes	No	No	Yes
Offering mode(s) (trad. (T), distance (D) or hybrid (H))		T,D,H	T,D,H	T,D,H	T,D,H	T,D,H	T,D,H	T,D,H
Course prefix		BADM BOTK CMAP CSEC IMGT MGT	AECL AGEK ANSC ECON REWM SOIL	ANTH	ART PHTO	ASTR BIOL CHEM GEOL GEOG MOLB PHYS ZOO	ENGL CO/M	NRST NURS ZOO
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 17-18	1857	601	237	993	3939	3306	1728
	AY 16-17	1887	585	216	1140	3487	3299	1847
	AY 15-16	1907	566	195	1140	3884	3749	1963
	AY 14-15	1782	526	187	1110	3674	3329	2046
	AY 13-14	2101	440	108	1562	3714	3753	2055
Number of declared majors for the past five academic years	AY 17-18	13	23	20	49	26	21	244
	AY 16-17	20	32	8	54	64	29	236
	AY 15-16	10	41		50	72	35	256
	AY 14-15	9	34		60	78	21	257
	AY 13-14	14	24		62	65	25	284
Number of program graduates (and/or certificate earners) for the past five academic years	AY 17-18	3	5	1	6	5	7	30
	AY 16-17		5	1	2	10	4	28
	AY 15-16	2	4		8	11	4	27
	AY 14-15	1	3		5	10	2	28
	AY 13-14	6			5	13	3	26



Academic Year Reported: AY 17-18		Eastern Wyoming College					
Eastern Wyoming College Program Name		Agriculture	Art	Biology	English	Nursing	Veterinary Technology
CIP code(s)		01.0102,01.0104,01.0302,01.0303,01.1106	50.0701	26.0101	23.0101	51.3801	51.0808
Name of credential(s)		AGBSS.AS;FRCH.AAS;AGBP.CD;AQTK.C;REWM.AS	ART.AA	BIOL.AS	ENGL.AA	NURS.ADN	VTTK.AAS;VTAD.CD
Active Partnerships (Yes/No)		Yes	No	No	No	Yes	No
Name of specialized accreditation organization (if applicable)						ACEN	AVMA
Active Advisory Committee (Yes/No)		Yes	No	No	No	Yes	Yes
Offering mode(s) (trad. (T), distance (D) or hybrid (H))		T	T	T	T	T	T
Course prefix		AECL;AGEC;AGRI;AGTK;ANSC;AQTK;CROP;EQST;REWM;RNEW;SOIL	ART	BIOL;MOLB	ENGL;JOUR	NURS	VTTK
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY17-18	1497	795	1395	2026	216	1543
	AY16-17	1510	762	1463	2256	252	1522
	AY15-16	1578	981	1351	2228		1212
	AY14-15	1776	924	1367	2391		1439
	AY13-14	1811	1107	1538	2766		1938
Number of declared majors for the past five academic years	AY17-18	87	10	4	2	12	80
	AY16-17	79	5	5		14	80
	AY15-16	70	6	5			68
	AY14-15	77	10	2	1		78
	AY13-14	72	10	4	1		97
Number of program graduates (and/or certificate earners) for the past five academic years	AY17-18	19			1	12	28
	AY16-17	19					26
	AY15-16	21		1			20
	AY14-15	22	6				24
	AY13-14	16		1			12





Academic Year Reported: AY 17-18		Laramie County Community College						
Program name or program cluster name that includes....		Agriculture	Anthropology	Art	Biology	Cyber	English	Nursing
CIP code(s)		01.0101, 01.0106, 01.0301, 01.0308, 01.0901, 01.1106	45.0201	50.0701	26.0204, 26.0709, 30.1801	11.1003, 51.3901	23.0101	51.3801
Name of credential(s)		AAS, AS	AA	AA	AS	AAS, CCD, CD	AA	ADN, AAS, CERT
Active Partnerships		Yes	No	Yes	Yes	Yes	Yes	Yes
Name of specialized accreditation organization (if applicable)								Accreditation Commission for Education in Nursing
Active Advisory Committee (Y/N)		Yes	No	Yes	Yes	Yes	Yes	Yes
Offering mode(s) (trad.(T), distance (D) or hybrid (H))		D, T	D, T	D, T	D, T, H	D, H, T	D, H, T	T
Four letter course prefix		AGEC	ANTH	ART	BIOL	CSEC	ENGL	NURS
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 17-18	141	818	1390	2548	144	5085	3201
	AY 16-17	402	789	1527	2203	177	5130	3560
	AY 15-16	192	829	1720	2104	321	5716	3417
	AY 14-15	334	869	1828	2107	219	7332	3552
	AY 13-14	180	795	1863	2033	186	7676	3718
Number of declared majors for the past five academic years	AY 17-18	187	22	56	96	35	47	219
	AY 16-17	192	25	54	114	27	35	240
	AY 15-16	196	12	54	100	17	33	261
	AY 14-15	150	17	53	71	0	25	271
	AY 13-14	160	16	52	79	0	32	337
Number of program graduates (and/or certificate earners) for the past five academic years	AY 17-18	22	2	7	7	1	6	134
	AY 16-17	22	3	11	2	5	7	142
	AY 15-16	15	4	2	1	6	3	138
	AY 14-15	17	0	8	4	2	3	138
	AY 13-14	16	5	2	5	5	3	156



Academic Year Reported: AY 17-18	Northwest College								
Program name or program cluster name that includes....	Admin Assistant - no longer active	Agriculture (Agriculture Business; Agriculture Communication; Agriculture Education; Agroecology; Animal Science; Farm and Ranch Management; Production Agriculture; Range Management; Veterinary Assistant)	Anthropology	Art	Biology (Biology; Natural Resource Biology) - pre-professional programs not included because reviewed for 2015-16	English Studies	Nursing (Registered Nursing; Practical Nursing; Certified Nursing Assistant)	Robotics Technology - part of Welding programs; all other Welding programs will be reviewed for 2018-19	Communication
CIP code(s)	52.0401	01.0102; 01.0802; 13.1301; 01.0304; 01.0901; 01.0104; 01.0301; 01.1106; 51.0808	45.0201	50.0701	26.0101; 03.0201	23.0101	51.3801; 51.3999; 51.3902	48.0508	9.0101
Name of credential(s)	AAS, CERT	AS, AAS, CERT	AA	AA	AS	AA	A.D.N. (first cohort started 2016-17); AAS (replaced by A.D.N., last cohort ended 2016-17); CERT	CERT	AA
Active Partnerships	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Name of specialized accreditation organization (if applicable)	N/A	N/A	N/A	NASAD (National Association of Schools of Art and Design)	N/A	N/A	A.D.N./AAS: ACEN (Accreditation Commission for Education in Nursing)	N/A	N/A

Academic Year Reported: AY 17-18		Northwest College								
Program name or program cluster name that includes....		Admin Assistant - <i>no longer active</i>	Agriculture	Anthropology	Art	Biology	English Studies	Nursing	Robotics Technology -	Communication
Active Advisory Committee (Yes/No)		No	Yes	No	Yes	No	No	Yes	Yes	No
Offering mode(s) (trad.(T), distance (D) or hybrid (H))		T, D, H	T, D, H	T, D, H	T, D, H	T, D, H	T, D, H	T, D, H	T	T, D, H
Course prefix		BADM	AGEC; AGECL; AGRI; AGRIL; AECL; AECLL; ANSC; ANSCL	ANTH; ANTHL	ART; ARTL	BIOL; BIOLL	ENGL	NRST; NURS	WELD; WELDL	CO/M
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 17-18	291	605	207	489	704	1184	782	677	562
	AY 16-17	341	781	166	425	905	1246	742	825	554
	AY 15-16	362	785	158	438	805	1228	642	648	492
	AY 14-15	300	793	234	526	701	1159	645	648	583
	AY 13-14	360	789	209	543	725	1310	656	786	591
Number of declared majors for the past five academic years	AY 17-18	0	134	9	38	44	15	76	0	10
	AY 16-17	1	134	15	27	44	15	77	0	13
	AY 15-16	10	142	11	23	47	17	78	0	10
	AY 14-15	7	137	10	29	41	25	82	0	22
	AY 13-14	9	141	11	36	39	27	70	0	19
Number of program graduates (and/or certificate earners) for the past five academic years	AY 17-18	0	38	4	8	7	1	34	6	4
	AY 16-17	0	35	2	3	8	2	31	1	3
	AY 15-16	0	33	3	9	9	3	34	1	7
	AY 14-15	0	30	0	7	7	8	32	0	6
	AY 13-14	4	30	2	5	5	4	32	1	6
Number of community college service area resident program graduates for the past five years	AY 17-18	0	13	3	5	5	1	31	3	1
	AY 16-17	0	12	1	1	4	2	26	1	1
	AY 15-16	0	10	0	6	7	3	31	0	3
	AY 14-15	0	13	0	4	6	5	26	0	6
	AY 13-14	0	6	2	0	2	3	29	1	3

Academic Year Reported: AY 17-18		Northwest College								
Program name or program cluster name that includes....		Admin Assistant - <i>no longer active</i>	Agriculture	Anthropology	Art	Biology	English Studies	Nursing	Robotics Technology -	Communication
Total number of Wyoming resident program graduates for the past five years	AY 17-18	0	22	3	8	6	1	33	4	1
	AY 16-17	0	17	2	1	5	2	26	1	1
	AY 15-16	0	11	2	7	7	3	31	0	5
	AY 14-15	0	15	0	4	6	6	29	0	6
	AY 13-14	1	10	2	4	3	3	29	1	3
Plan for assessment follow-up (none, in-progress or done)		None; program deactivated in 2017	Done	Done	Done	Done	Done	Done	Done	Done

\*The Robotics Technology certificate is a subset of NWC's Welding degree. It is common for students to not declare the Robotics certificate as a "program" but complete the certificate as part of completing the related degree.

Academic Year Reported: AY 17-18		Northern Wyoming Community College District						
Program name or program cluster name that includes....		Administrative Assistant	Agriculture	Art	Biology	Cybersecurity	English	Nursing
CIP code(s)		52.0401	01.0000, 01.0101, 01.0901, 01.0507, 01.1106	50.0701	26.0101	11.1003	23.0101	51.3801, 51.3901
Name of credential(s):		Certificate	AS, AAS, Certificate	AFA	AS	AAS, Certificate	AA	ADN, Certificate
Active Partnerships (Yes/No)		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Name of specialized accreditation organization (if applicable)								Accreditation Commission for Education in Nursing
Active Advisory Committee (Yes/No)		Yes	Yes	No	No	Yes	No	Yes
Offering mode(s) (trad.(T), distance (D) or hybrid (H))		T	T	T	T	Various	T	T
Course prefix		BOTK	AGEC, AGRI, AECL, ANSC	ART	BIOL	CSEC	ENGL	NRST
Credit hour enrollment in courses with the course prefix (above) for the past five academic years	AY 17-18	22	1240	754	2278	90	5765	2644
	AY 16-17	42	1408	723	2142	51	5912	2588
	AY 15-16	53	1369	1014	1852	0	5482	2421
	AY 14-15	82	1349	1070	1748	0	5125	2509
	AY 13-14	123	1355	1128	2088	24	6252	2199
Number of declared majors for the past five academic years	AY 17-18	6	88	32	37	20	16	137
	AY 16-17	7	80	32	33	9	19	121
	AY 15-16	11	79	30	32	4	17	121
	AY 14-15	15	57	30	33	4	12	120
	AY 13-14	19	53	21	34	6	12	113
Number of program graduates (and/or certificate earners) for the past five academic years	AY 17-18	2	21	10	6	0	3	58
	AY 16-17	4	34	4	8	0	2	54
	AY 15-16	4	24	9	7	0	3	55
	AY 14-15	4	11	4	10	0	3	54
	AY 13-14	10	12	2	1	3	3	47





<b>Academic Year Reported: AY 17-18</b>	<b>Western Wyoming Community College</b>							
<b>Program name or program cluster name that includes...</b>	Administrative Assistant	Anthropology	Art	Biology	Communication / Speech	English	Nursing	Psychology
<b>CIP code(s)</b>	52.0408, 52.0401, 51.0716, 50.0102, 51.0710, 51.0716, 11.1099	45.0201	50.0711 50.0605 50.0701 50.0605	26.0101 51.1199 03.0101	09.0101 09.0401	23.0101 23.1302	51.3899 51.1601 51.3801 51.3901	42.0101
<b>Name of credential(s)</b>	CLERK-TYPIST CERTIFICATE ADMINISTRATIVE ASSISTANT CERTIFICATE AAS.OFFICE INFORMATION SYSTEMS AAS.MEDICAL OFFICE ASSISTANT AAS.BUSINESS INFORMATION SYSTEMS AAS.BUSINESS INFORMATION SYSTEMS, DIGITAL MEDIA AAS.MEDICAL ADMINISTRATIVE ASSISTANT MEDICAL ADMINISTRATIVE ASSISTANT CERTIFICATE MEDICAL OFFICE ASSISTANT CERTIFICATE SOCIAL MEDIA CERTIFICATE	AA.ANTHROPOLOGY	AA.ART FOUNDATION AA.CERAMICS AA.PHOTO- GRAPHY AFA.VISUAL ART 2D	AS.BIOLOGY AS.BIOLOGICAL SCIENCES, GENERAL AS.BIOLOGICAL SCIENCES, ORGANIC AS.PRE- WILDLIFE BIOLOGY AS.PRE- RANGELAND ECOLOGY AS.PRE- FORESTRY AS.PRE-HEALTH AS.NATURAL RESOURCES	AA.COMMUNICATION AA.ORGANIZATIONAL COMMUNICATION JOURNALISM CERTIFICATE	AA.ENGLISH CREATIVE WRITING CERTIFICATE	AS.NURSING (TRANSFER) AAS.NURSING ADN.NURSING CERTIFICATE IN PRACTICAL NURSING PRACTICAL NURSE CERTIFICATE, SPIN OFF	AA.PSYCHOLOGY AAS.HUMAN SERVICE SPECIALIST
<b>Active Partnerships (Yes/No)</b>	No	No	No	No	No	No	No	No
<b>Name of specialized accreditation organization (if applicable)</b>	No	No	No	No	No	No	No	No
<b>Active Advisory Committee (Yes/No)</b>	Yes	No	No	No	No	No	Yes	No
<b>Offering mode(s) (trad.(T), distance (D) or hybrid (H), online (O))</b>	T, D, H, O	T, D, H, O	T, D, H, O	T, D, H, O	T, D, H, O	T, D, H, O	T, D, H, O	T, D, H, O
<b>Course prefix</b>	BOTK, CMAP	ANTH	ART	BIOL, MOLB	COMM	ENGL	NRST, NURS	PSYC



# Executive Overview of Program Reviews

---

## Casper College

---

### **Name of Program: Office Management**

CIP Code(s) (six digits): 52.0204

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: OFFICE.AAS; OFFICE.CER

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

The Office Management program prepares students to work in a wide variety of clerical, office assistant, administrative assistant or executive assistant opportunities depending on the region of the country and the industry they choose for employment. Virtually every organization needs someone to fill the roles office management students are trained for. Students take a variety of software and business courses, as well as professional development. The program is designed for direct entry into the workforce but students can also continue on to transfer into a bachelor's program.

### **Name of program: Agriculture**

CIP Code(s) (six digits): 1.0000; 1.0101; 1.0802; 1.0901; 1.1106

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AGRI.AS; AGRIBUS.AAS; AGRIBUS.AS; AGRICOMM.AS; ANSC.AAS; ANSC.AS; RANGE.AS

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

The Agriculture Department meets the needs of our students who plan to further their education at a university (A.S.) or those students who plan to enter the workforce (A.A.S.) after completing an associates degree. Our variety of degrees offer a broad enough scope to prepare students with the knowledge for a diverse agriculture workforce but also provide the rigor to prepare them for a bachelor's degree program.

### **Name of program: Anthropology**

CIP Code(s) (six digits): 45.0201

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ANTH.AA

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

The anthropology program provides students with an associate degree, transferable to four-year institutions. The program also provides general education classes for the wider campus community. Casper College currently maintains a two-plus-two arrangement with the University in Wyoming. By agreement, CC students can count on receiving full credit in Laramie for all of their anthropology coursework taken in Casper. As part of CC's broader general education program, students in any major may take anthropology classes to fulfill the Human Behavior portion of the curriculum.

**Name of program: Art**

CIP Code(s) (six digits): 50.0701

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ART.AA

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

The Visual Arts Department will provide a quality visual arts education based on a foundation of both traditional and contemporary practices and ideas. Consistent with the mission, philosophy, and institutional purposes of Casper College, this education serves as the foundation for further study and meaningful participation in contemporary society.

**Name of program: Assistive Tech**

CIP Code(s) (six digits): 51.2312

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ASSISTIVETECH.CER

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

The Assistive Tech program provides students with an opportunity to build skills in the development, creation and use of Assistive technology. Students complete prerequisite courses and then a practicum. In the practicum, students provide open labs, gain training and provide services to community members on Assistive technology. Students work with Wyoming Assistive Technology Resources and the local YMCA for labs. This provides students with teaching and learning opportunities and helps provide access for Wyoming citizens to AT devices. Students earn a certificate to compliment their current studies at Casper College.

**Name of program: Auto Body Technology**

CIP Code(s) (six digits): 47.0603

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AUTOBODY.AAS; AUTOBODY.CER

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

The Casper College AUBR program educates, trains, and prepares students for national certification IAW ASE, NATEF, and ICAR standards to pursue employment in the Auto Body Repair Industry. Students who graduate from this program are employed in Auto Body Repair facilities or auto dealerships within the state as well as surrounding states. Upon employment graduates can pursue certifications listed above through their employers, according to their needs. Students are trained in all aspects of the Auto Body Repair trade to include body techs, frame techs, paint techs and estimators. The state of Wyoming (and surrounding states) are in constant need of skilled auto body technicians to keep up with job demands, retirement, and attrition in the field. Students can earn a Certificate, or Associate of Applied Science degree in Auto Body Repair Technology.

**Name of program: Biology**

CIP Code(s) (six digits): 26.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: BIOL.AS

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

The Casper College Biology Department strives to educate students about biological concepts relevant to the individual, to society, and to local and global environments. We enable students to understand biological issues that confront every citizen in a world where knowledge of biology—and the opportunity for both its application and misapplication—is growing exponentially. As the unifying theme of all biology, the scientific method and evolutionary theory provides unity to our curriculum and all of our courses.

**Name of program: Cyber Security**

CIP Code(s) (six digits): 11.1003

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: CYBERSECURITY.AAS; CYBERSECURITY.AS;  
CYBERSECURITY.CER

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

The World Economic Forum has cited Cybersecurity as the second greatest threat facing humanity. Casper College's Cybersecurity program gives students the skills they need to be a part of the solution to address this growing threat. Students learn networking, attack, defense, cyber law and ethics. This program aligns with the Governor's ENDOW initiative to increase education, training and technical skills among Wyoming's population. Students are trained to work in IT, networking, security, database management or other aspects of technical security.

Students take the CCNA to earn a certification before leaving Casper College. They can earn a certificate, applied associate's or an associate's degree. They can then directly enter the workforce or transfer into a Bachelor's program.

**Name of program: English**

CIP Code(s) (six digits): 23.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ENGL.AA; ENGL.TEACH.AA; ENGL.WRITE.AA

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

The English degree offers three concentrations for an A.A.: Literature, Writing Emphasis (Creative Writing), and English for Secondary Education. The secondary education concentration aligns with CC Education instruction, enabling students to meet the public education needs for secondary instruction in the state. The general education courses prepare students in terms of mechanics, critical reading and thinking, research fundamentals and writing. Concentrations within the major deepen these skills with an additional focus on reading, discussing, and writing about the cultural, historical, and personal experiences of diverse peoples through the literary tradition. This exploration is furthered by the major's language requirement. The program fosters the development of fundamental soft skills for an increasingly diverse, rapidly shifting, and creative 21st century work environment.

**Name of program: Medical Lab Tech**

CIP Code(s) (six digits): 51.1004; 51.1009

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: MLTK.AS; PHLB.CER

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

The Casper College MLTK program educates, trains and sets students up for national certification to perform human clinical diagnostic testing. Students who graduate from this program and become nationally certified are employed in hospital laboratories, physicians clinics and reference laboratories. Nationally, 9,000 MLT students graduate annually and studies suggest we need 14,000 graduates. The state of Wyoming is in great need for certified MLT's to keep up with job demands, retirement and attrition in the workplace.

**Name of program: Nursing**

CIP Code(s) (six digits): 51.3801

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: NURS.ADN; NURS.AAS - Deactivated; NURS.AS – Deactivated

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

Casper College currently offers one degree options to become an RN: Associate Degree in Nursing. After acceptance into our program you can finish your degree in two years and be eligible to take the NCLEX-RN for licensure. The Associate Degree in Nursing (ADN) is a statewide curriculum. After passing the NCLEX-RN licensure the Registered Nurse will be able to seek employment in a variety of areas of nursing.

Our students are prepared to transfer classroom learning in simulated labs as well as live practicums in a wide variety of health care settings. The our clinical facilities are located in Casper and around the state.

**Name of program: Nutrition**

CIP Code(s) (six digits): 30.1901

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: NUTRITION.AS

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

Casper College offers an AS in Nutrition degree which upon completion, prepares students for three different educational pathways. (1) apply for a Didactic Program in Dietetics program (2) transfer to a BS in Nutrition or similar program or (3) obtain eligibility to sit the Certified Dietary Manager examination. There is a growing need for trained health professionals in the field of nutrition and dietary management, and the AS in Nutrition program at Casper College prepares students to earn the necessary education to fulfil these roles.

**Name of program: Pharmacy Tech**

CIP Code(s) (six digits): 51.0805

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: PHTK.AS; PHTK.CER

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

To provide academic and clinical training in pharmacy technology that will allow the student to successfully pass the national Pharmacy Technology Certification Board (PTCB) exam. Further to provide the Wyoming pharmacy community with competent support staff to ensure the public safety. The Associate of Science Pharmacy Technology and Certificate Program at Casper College provides education to produce competent pharmacy technicians for immediate employment or advanced education, by offering high quality didactic, simulation and clinical experience. Didactic work may be completed online or on campus. The program has clinical sites around the state for students to choose and graduates have a variety of healthcare career opportunities available.

**Name of program: Respiratory Therapy**

CIP Code(s) (six digits): 51.0908

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: RESP.AS

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

To provide education to produce competent respiratory therapist for immediate employment or advanced education, by offering high quality educational and clinical experiences.

The respiratory therapy program will create an educational environment that provides academic and clinical excellence to the respiratory therapy community. The program has accomplished this through the following means:

1. Offering an integrated and advanced level of clinical and academic curriculum  
Outcome evidence of high national board examination pass rates.
2. Meet employment needs of the profession regionally and State wide.  
Outcome evidence of high job placement and employee satisfaction rates.
3. Maintain national accreditation status by the Commission of Accreditation of Respiratory Care (CoARC)  
Outcome evidence of accreditation site visits and self studies.

**Name of program: Robotics Technology**

CIP Code(s) (six digits): 15.0405; 14.0506

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ROBOT.AAS; ROBOT.CER; AUTOMATION.CER

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

Program discontinued after 18SP.

---

## Central Wyoming College

---

**Name of program: Administrative Assistant**

CIP Code (six digits): 52.0401 52.0407 52.0408 52.0411

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AAS, Certificates

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

The Administrative Assistant AAS program prepares students for immediate employment as key support personnel in an office environment. The program is designed to prepare students for positions that require technical office skills and may involve supervising office operations, interacting with customers or clients, and managing a billing system or budget.

The goal and purpose of the program is to advance the skill-set of students who desire a career in an office setting or as office support staff. It is designed to better prepare students for the work they may encounter in those environments and improve their opportunity for attaining jobs in the field of administrative assisting.

The program is designed to be inclusive of all students who desire a career in an office support position. The admissions requirements are aligned with general admission to CWC. The program is designed to provide students with technical competencies and communication skills to improve their opportunities in the workforce.



**Additional Narrative:**

Enrollment has gone up and down over the past five years and is likely due to changes in the local, state and national economy. As with most CWC programs, enrollment in the fall term is higher than that of spring and summer, in some years more than double. The largest increase came in the fall of 2016, and the program nearly tripled in students enrolled, according to the data. Those numbers went down in the spring and remained steady over the next three semesters.

The enrollment data shows that students have been pursuing a certificate program, rather than the full AAS. Initially, they may be listed as or enrolled as an AAS degree seeking student, but completion numbers suggest they are earning a certificate in Office Support and Office Specialist.

The program is currently undergoing a change in the area of program requirements. Current faculty are working to improve course offerings and align the program requirements so that students can have the option to easily and seamlessly double major and/or change to Entrepreneurship, Management or Accounting AAS, or have additional areas of emphasis in Management, Accounting, Entrepreneurship, or Computer Technology. This will allow our students to have an option of emphasizing or specializing in an area of interest while preparing them for the workforce.

**Name of program: Agricultural Business**

CIP Code (six digits): 01.0101

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AS

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

Central Wyoming College offers an Agriculture Business program for students who are seeking an Associate of Science degree in Agriculture Business. This program introduces students to the business aspects of agriculture. Students will be exposed to all aspects necessary in ag business and farm and ranch management such as business analysis, spreadsheet applications and concepts, accounting practices and procedures, and basic plant and livestock applications relating to business. Agriculture is ranked third in Wyoming related to its economic impact on state revenues; this program directly prepares students for agribusiness related roles in a transfer degree option.

**Additional Narrative:**

The enrollment for the program was fairly consistent until last year when it experienced a decrease from trends in the previous years; this decrease is consistent with overall college fluctuations in enrollments. Based on a comprehensive program analysis, CWC could be more competitive with other colleges by offering more agriculture student activities. In addition, CWC should offer agriculture computer and marketing classes.

Feedback from advisory committee meetings has focused on the need for internships for students on a farm or ranch; active efforts are in progress to establish these opportunities for student in the community. Program courses are being evaluated and updated to address the Agriculture Business program at the University of Wyoming so establish a more seamless articulation.

**Name of program: Farm and Ranch Management**

CIP Code (six digits): 01.0101

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AAS, Certificates

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

Central Wyoming College offers a Farm and Ranch Resource Management program for students who are looking into going to business management at the family agriculture operation or as a livestock business manager for an agriculture business. This degree focuses on business and accounting aspects of running an agricultural business and provides students' classes that help them apply business concepts to real work situations.

The average age of a Farmer/Rancher is 57 years old, so the need for an individual to be skilled in this industry is increasing. This program enables students to gain skills necessary for them to operate most aspects of a farm or ranch. Agriculture is ranked third in Wyoming related to its economic impact on state revenues; this program directly prepares students for roles in the management of an agriculture related business in a non-transfer degree option.

**Additional Narrative:**

Despite the state's economic downturn, enrollment numbers in this program are increasing, with a high between 2015-2017. Similarly, graduation numbers are increasing. Student motivation is an important contributing factor in a student's successful completion in this program. Many students come into the program because they know they have an opportunity to management a current farm/ranch operation and they need the skills to help them be successful in this industry.

Recent feedback from advisory committee meetings identify the need for internships for students on a farm or ranch; active efforts are in progress to establish these opportunities for student in the community. CWC's current plans for the proposed Rocky Mountain Complex for Ag and Equine Sciences facility will provide significant opportunities for this program to become more well-rounded in regard to meeting regional workforce needs in this field. Curriculum had been developed to add course work and hands-on skills in Meat Animal Evaluation/Meat Science to help prepare students for another aspect of Farm and Ranch Management that would not be offered otherwise.

**Name of program: Agriculture Range Management**

CIP Code (six digits): 01.1106

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AS

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

Central Wyoming College offers an Agriculture Range Management program for students who are seeking an Associate of Science degree in Agriculture Range Management. This program introduces students to the science of range ecology and range management. The Agriculture Range Management Program is committed to helping students reach their goals toward a career in the agriculture industry. Agriculture is ranked third in Wyoming related to its economic

impact on state revenues; this program directly prepares students for Agriculture Range Management career roles in a transfer degree option.

**Additional Narrative:**

Based on the data, enrollment in the range management program has remained relatively consistent over the last five years. Based on a comprehensive program review, many improvements are being developed that will directly improve and enhance the learning outcomes for this degree option. Current courses are being updated to more seamlessly articulate with the Agriculture Range Management program at the University of Wyoming. In addition, a review of the REWM 2500: Plant Identification course is in progress to expand class content, including adding learning concepts related to ecosystems. Finally, adding courses such as ZOO 2450: Principles of Fish and Wildlife Management are being considered.

CWC needs to enhance the student experience in this program through the addition of offering more agriculture student activities. CWC's current plans for the proposed Rocky Mountain Complex for Ag and Equine Sciences facility will provide significant opportunities to strengthen this program through the addition of adequate space to grow crops and plants to facilitate the use of these applications for classroom lab enhancements.

**Name of program: Anthropology (formally Western American Studies)**

CIP Code (six digits): 45.0201

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AA

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

The Anthropology goals directly align with CWC, employer, service area, and state needs. The Anthropology program seeks to:

- enrich students' lives by increasing their understanding of their lives as related to the world around them,
- provide advanced academic and experiential backgrounds that will give students competitive advantages as they transfer to four year and graduate programs, and
- guide and prepare students for careers in a variety of professional disciplines from archaeology to museums to teaching to zoology.

This program serves students with a wide variety of interests. Anthropology is a global and holistic study of the human experience which draws upon all the arts, social sciences, and hard sciences. Our program emphasis is on field research, but students wishing to pursue laboratory work, or museum positions, etc., have also been successful.

The Federal land management agencies (e.g., BLM, USFS, BOR, etc.) and many private consulting companies across the western United States are facing a critical shortage of trained Cultural Resource Management (CRM) archaeologists as baby boomers retire. CWC is one of only a handful of institutions nationwide that provide field training in CRM archaeology and Geographic Information System (GIS). This is why the USDI-BLM has provided hundreds of thousands of dollars in funding and considers CWC a national pilot program hoping to inspire more colleges to offer the same professional track experiential educations.

**Additional Narrative:**

As a result of a comprehensive program review, this program has identified these pressing needs: increased staffing to ensure the quality and notoriety of the summer Field School course continues; revamp marketing strategies focused on the broad expanse of career opportunities provided by the Anthropology degree at CWC; and add coursework on Cultural Resource Management to the required curriculum.

**Name of program: Art**

CIP Code (six digits): 50.0101 50.0406 50.0701

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AA, AAS, Certificates

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

The goals of the Art/Photography programs are to prepare students for transfer into a 4 year degree program or to prepare for entry into the workforce. The specific audience for these programs are creatively inclined individuals. As Art faculty, our job is to teach the foundation skills for creating and evaluating art. These roles are critical in maintaining and expanding current regional and state initiatives to preserve and celebrate cultural aspects that the various art forms can provide.

**Additional Narrative:**

As a result of ongoing comprehensive program review, a number of programmatic and degree offerings were revised. The addition of classroom space in the form of a dedicated Photography shooting room allowed for the addition of Digital Photography to the Art program requirement, which resulted in students learning to document their own work. After a declining enrollment and a changing face of graphic design, faculty ended that program in May of 2016. In fall of 2014, faculty added a Media internship for Photography majors to provide real world experience in the field. Current assessment of student learning outcomes and program outcomes related to these changes are in progress.

Early data indicates improvements in program outcomes. Although enrollment declines have been noted in these majors, they are consistent with overall college enrollments trends. However, the percentage of students graduating in these majors has increased.

**Name of program: English**

CIP Code (six digits): 23.0101

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AA

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

The goal of the English program is to provide students with core research, writing and thinking skills they will need in college and the workplace. The English department serves all CWC students; as a "service program," this department offers general education courses required in all associate degree programs, as well as in many certificate options. The English AA program

serves English majors preparing them to transfer to a four-year program. Education related to skills in writing and research are essential to building competency in critical thinking and problem solving, which are foundational skills in every role, career, and job throughout the state.

**Additional Narrative:**

Through a comprehensive program review, several details regarding the English AA degree at CWC have been noted: some fluctuation in semester enrollments have occurred, but essentially remain steady across this five year review period. Fifty percent (50%) of graduates transfer to the University of Wyoming, with the remaining graduates transferring to various universities, particularly in the western half of the nation. Articulation agreements exist for UW, and are currently being updated.

Several considerations are currently being reviewed by English faculty, including the potential benefits of adding a 100% online option for completing the English AA degree option, and the development of additional articulation agreements with those institutions CWC English majors typically transfer to upon graduation.

**Name of program: Nursing**

CIP Code (six digits): 51.3801 51.3902

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: ADN (formally AAS)

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

The purpose of the Central Wyoming College Associate Degree Nursing Program is to assist students in realizing their individual potential in the acquisition of knowledge, decision-making skills, and attitudes necessary to enter into practice as competent and compassionate providers of care. The program encourages students to assume responsibility for self-development and lifelong learning, critical thinking, communication skills, technological literacy, commitment to the discipline of nursing, and the highest standards of nursing practice. The program further assists students in utilizing the nursing process to guide nursing care of individuals, families, groups, and communities. Students are prepared to function as providers of care, managers of care, and collaborative members within the discipline of nursing. The nursing program is designed to meet a growing and critical need for registered nurses—both in Wyoming and across the U.S.

**Additional Narrative:**

Since the last program review, the nursing program has evolved a great deal. The classic AAS degree was deleted in 2017 and replaced with a concept-based curriculum and the Associate Degree in Nursing that students' earn today. The new curriculum is shared statewide and is known as ReNEW, which stands for Revolutionizing Nursing Education in Wyoming.

CWC nursing faculty opted to adopt the team-based learning developed by Larry Michelson. This active learning approach is enhanced through deliberate "bundling" of classroom and clinical activities to facilitate exploration of concepts with deliberately designed clinical activities to allow application for deeper learning. Learning assessment is guided by outcomes and carried out in eight specific ways, which include clinical performance, competency performance, simulation, reflection, discussion, formal writing, concept exploration, and through examination. Rubrics are used to promote consistency among the faculty team in grading – and to allow

accurate reporting of student attainment of learning outcomes.

The first students admitted to the program in fall semester 2016 graduated in May 2018. The final group of AAS students completed in May 2017. Currently, the second and third cohort of students are in the program. A full three years of data will be available in November 2020 for comparison against the classic curriculum in areas such as NCLEX pass rates, retention, and student satisfaction.

Through this curricular transition, enrollments are strong (at program capacity), student persistence has increased, and student meeting the Standards for Academic Progress (SAP) requirements have increased. Licensure pass rates are above both the state and national averages. Recruitment of academically qualified faculty is an ongoing challenge; despite various recruitment methods, the program currently has a vacant position that has gone unfilled for the past 18 months.

**Name of program: Science**

CIP Code (six digits): 03.0104 26.0101 40.0101 40.0601

Academic year this report is made: 2018-2019

Academic year review was done: 2013 - 2017

Credential(s) awarded: AS

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

The science program provides foundational classes that prepare students for further studies at the University of Wyoming or another four-year college or university. Science is the systematic study of the physical and natural world through observation, experimentation, and the application of predictive models. The interdisciplinary nature of science requires the student to have a broad exposure to biological sciences, chemistry, and physics in order to connect the concepts learned in a chosen discipline to the greater whole of science.

This program provides the opportunity for knowledge and skill development in preparatory coursework necessary for the student considering a career in biology, chemistry, physics, other physical sciences, or health sciences, including medicine, chiropractic, physical therapy, veterinary medicine, dentistry, optometry, and pharmacy.

**Additional Narrative:**

The major change that has occurred in the Science Department in the last five years at CWC has been to combine several different programs (Biology, Physical Science, Pre-Health, etc.) into a single program called Science. In addition to requiring the standard general education requirements, the new program only requires one semester of biology, one semester of chemistry, and one semester of physics. The purpose of this change was to provide flexibility to students when transferring to four-year colleges or universities and to make articulation, including 2+2's with the University of Wyoming, with surrounding colleges and universities easier.

There have been several changes to individual courses that impact the program overall. One significant change that has occurred has been the introduction of flipped courses for Biology and Anatomy courses. In these hybrid courses, students now spend a major portion of time learning online. This change mirrors the primary teaching methodology in the Nursing Program

and better prepares our students for that program as well as transfer to four-year science programs.

For our students majoring in a health science field we have substantially improved their understanding of human anatomy by the introduction of human cadavers for study in the basic anatomy course. We have also introduced an advanced cadaver course available to qualified students.

Although the INBRE program at CWC has been in existence for more than five years, it has recently expanded significantly. All of the biology faculty (Aaron Bender, Kirsten Kapp, Steven McAllister, and Tara Womack-Shultz) and the Professor of Environmental Health (Jacki Klancher) are now involved in various research programs that provide experiential learning in a variety of venues including field research and biomedical research laboratories.

---

## *Eastern Wyoming College*

---

### **Name of program: Education**

**Education includes: Child Development Certificate (ECC.C, ECDL.C), Early Childhood Education (EDEC.AA, EDL.AA), Elementary Education (ELED.AA, EEDL.AA), Secondary Education (SCED.AA), Secondary Education, Agriculture (AGRED.AA)**

CIP Code(s) (six digits): 13.1202, 13.1205, 13.1210, 13.1301

Date this report is presented to the WCCC: December 2017

Academic year review was done: 2016-2017

Credential(s) awarded: AA, Certificate

### **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 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 declared majors in 16-17 is 81. It increased by 12.5% compared with 15-16. The number of graduates in 16-17 was 10. 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.

The Education program has one 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: Machine Tool Technology (MTT.CD)**

CIP Code(s) (six digits): 48.0501

Date this report is presented to the WCCC: December 2017

Academic year review was done: 2016-2017

Credential(s) awarded: Certificate

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

The Machine Tool Technology is a two-semester certificate program requiring completion of 30 to 32 credits. Coursework includes computer aided drafting (CAD), general machine tool technology, general welding, industrial safety, print reading, and technical hydraulics. The certificate allows students to pursue a wide range of employment options upon completion. The number of graduates in 16-17 is 4. The credit hour enrollment in 16-17 is 2401 credit hours.

**Additional Narrative:**

The Machine Tool Technology courses are taught by the four full-time welding instructors along with several adjunct instructors. Students are required to complete an outcomes assessment project. With the completion of the new Career Technical Education Center (CTEC) and a new machine shop, we hope that enrollment will increase in future years.

**Name of program: Mathematics**

Mathematics includes: Mathematics (MATH.AS), Secondary Education, Mathematics (MTED.AA), Statistics (STAT.AS)

CIP Code(s) (six digits): 13.1311, 27.0101, 27.0501

Date this report is presented to the WCCC: December 2017

Academic year review was done: 2016-2017

Credential(s) awarded: AA, AS

**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 number of declared majors in 16-17 is 6 which is same as 15-16. The credit hour enrollment in 16-17 is 3409 credit hours.

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 four 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.

**Name of program: Social Sciences Associate (SOSC.AA)**

CIP Code(s) (six digits): 45.0101

Date this report is presented to the WCCC: December 2017

Academic year review was done: 2016-2017

Credential(s) awarded: AA

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

The Social Science major offers a broad based Associates of Arts degree that can lead to a variety of careers in government, law, education, business, social or counseling work, or international relations. The program provides students with core knowledge in areas such as History, Political Science, Psychology, and Sociology. Many of the courses allow students to meet the General Education requirements for other majors. The number of declared majors in 16-17 is 33, which is a 13.8% increase compared with 15-16. The number of graduates in 16-17 is 7, which is same as 15-16. The credit hour enrollment in 16-17 is 3313, which increases 6% compared with 15-16.

**Additional Narrative:**

Three full-time faculty and numerous adjunct faculty teach the courses for the Social Science major. The This 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 Arts and Humanities degrees. 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. 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.

---

# Laramie County Community College

---

**Name of program: Anthropology**

CIP Code(s): 45.0201

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2018-2019

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 Anthropology is designed primarily for the student who plans to transfer to a four-year institution and pursue a Bachelor of Arts degree in anthropology. The program is designed around the requirements set by the University of Wyoming for a four-year degree in anthropology. The program can also help prepare the student in studies other than anthropology including prelaw, premedicine, predentistry, library paraprofessional, administration of justice, and aging and human development. Specifically, the Anthropology program at LCCC is comprised of archaeological, biological and cultural anthropology courses which serve both anthropology majors and a general elective for non-majors. These courses prepare students to pursue transfer or career options.

LCCC's Anthropology Program for Anthropology majors is committed to preparing students to succeed academically in college-level learning. We accomplish this by engaging students in learning activities that will prepare and advance them through the pursuit of a baccalaureate degree. In addition, we provide expert instruction in cultural, biological and archaeological course work to students across campus and beyond. Our students learn the value of polished communication skills as they equip themselves with the cultural awareness and inclusive mindset necessary to thrive in an increasingly diverse and globalized society. The Anthropology Program's vision is to be seen as an academically rigorous program with graduates who are knowledgeable, engaged, and thoughtful citizens capable of informed discussion and work or study in a variety of fields.

**Name of program: Art**

CIP Code(s): 50.0701

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2018-2019

Credential(s) awarded: AA

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

The LCCC program of study in art is designed to provide students with training in the concepts, techniques, and methods unique to two and three-dimension visual art mediums. Through a program of study that includes art history, theory, appreciation, and studio art, degree seeking students and community members have academically directed access to the knowledge, skills

and attitudes required for traditional and new approaches to problem solving in specific visual art media.

Matriculation through the visual art program of study at LCCC provides students with general education, as well as artistic skill development leading to both professional career development and an A.A. degree or beyond. Completing a degree, transferring to a four-year institution, working as professionals, or simply pursuing education/training in visual art are signposts of program success. Articulations have been completed for University of Wyoming, Rocky Mountain College of Art and Design, Minneapolis College of Art and Design and a soon to be finalized articulation with University of Northern Colorado.

The visual arts have historically served to communicate ideas and feelings that cannot be expressed verbally. The expressive or aesthetic dimension common to the arts disciplines has been (and continues to be) an important component of an advancing civilization. An understanding of the arts is valued for the insights it provides into the human condition, for the basis it provides for self-knowledge, and for the connection it makes with unique visual-spatial realms of intellectual functioning.

Through partnerships with the LCCC Foundation, community groups, and on campus committees such as the LCCC Cultural Committee; the LCCC Art Department shares its academic pursuit and value in the visual arts with the community at large. In ongoing donor and college supported series of visiting artists, their gallery shows and lectures, the LCCC Art Department expands the availability and accessibility of the ever growing culture of visual arts. Many of these lasting professional partnerships develop into return visits creating opportunities for credit and non-credit courses during the summer session instructed by professionals in the visual arts field. At other times, these professional partnerships have led to community and college purchases of artwork for public display resulting in permanent public relationship with the LCCC Art Department.

The Art program competencies are as follows:

1. Recognize the processes and histories of creating art
2. Distinguish between styles, techniques, and materials used by artists
3. Recognize the influence religion, government, society, and culture have on art
4. Discover greater relevance of art to their lives
5. Create art works utilizing ideas and materials relevant to course material

From Fall 2013 to Spring 2017 the art program has had a success rate of 85.13% with face to face courses and 68.7% with online courses. Fall to Fall retention: From Fall 2015 to Spring 2018 there have been 154 students started the art program and 46.75% of these students persisted and of those that didn't persist, 39.6% stayed at LCCC and switched to a different program leaving 13.64% that left the institution. The Fall to Spring retention rate was around 81% during this period.

**Name of program: Biology**

CIP Code(s): 26.0709; 30.1801; 26.0204; 26.0709

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2018-2019

Credential(s) awarded: AS

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

The Natural Science program at Laramie County Community College promotes personal and professional growth through the development of scientific reasoning and problem solving. The program aims to inspire learning through relevant experiences that emphasize ethical and rational thought. All students in this program will acquire knowledge and skills necessary to develop as professionals in a science field and become informed, critically thinking and engaged citizens. Within their chosen concentrations students will acquire the specific knowledge and skills necessary to be successful professionals within their discipline and either move on to a four year institution and gain a baccalaureate degree or gain employment in related fields. Furthermore, an important aspect of the Natural Science program's mission is to provide courses that serve the natural science needs of students and their ultimate success in other LCCC programs (e.g. Agriculture, Business, Computer Science, Education, Health Sciences & Wellness programs). Finally, it is also part of the Natural Science program's mission to be a conduit to the community for natural science issues, skills and knowledge. This is done through various community outreach, collaborations and partnerships (e.g. our collaborations with Cheyenne and Laramie County GIS Coop, LCCC Bioblitz, Laramie County Conservation District, Laramie County K12 Schools, Wyoming FFA). Most importantly it is through building a sense of trust and presence in the community so that they see the Natural Science program as an important resource within the community.

**Name of program: English**

CIP Code(s): 23.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2018-2019

Credential(s) awarded: AA

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

The English program at LCCC offers students opportunities to study literature, creative writing and provides a good starting place for students interested in teaching, law, business, social work, politics, or entertainment. In 2016, the University of Wyoming bifurcated their existing English degree into two tracks: English Studies and Literary Studies. Since that time, we have amended our degree to make sure that students can seamlessly transfer to either of these tracks or to associate’s degrees in related areas without accruing unneeded credits. We currently have 37 active majors who also have the unique opportunity to participate in *High Plains Register*. These students design a competitive, nationally recognized literary and fine arts magazine where students and community members can publish their works of art, music, film, prose, and poetry. Students create the layout, recruit advertisers and submissions, manage the judgment of the works and oversee the final production, maintain and cultivate a social media presence, and work together to meet deadlines. This real-world publishing experience would be useful for public school teachers, business leaders, graphic designers, and others.

**Additional Narrative:**

The 2015 CCSSE data indicates that that 55.31% of students said that their courses in English Language and Literature were an “academic challenge” which was well above the LCCC average of 51.77% demonstrating that our courses were of a relatively high academic rigor compared to other courses at the college. While the overall course success rate of all college-

level courses at LCCC was around 69%, the course success rate for English courses at 2000 or above was above 80%. Our advisory committee consists of members from K-12, UW, LCCC advisors, and many others and meets regularly to discuss our yearly assessment results and provide useful feedback. . The English department has done a great job of increasing their numbers and have improved retention in their area. From Fall 2015 to Spring 2018, 93 students declared English as a major and 42% of these students persisted. Of those that didn't persist, 37% stayed at LCCC and our research suggested that they mostly changed their major to Education and, as a result, the program was adapted to align with this area so credits are not lost.

In the course of attaining an English A.A. degree at LCCC, students will practice critical thinking and achieve proficiency through the following program competencies:

- Conducting college-level research to apply in written texts that adhere to standard ethical practices;
- Developing college-level reading skills, including annotation, comprehension, vocabulary identification, fluency, and synthesis;
- Applying clear and concise writing skills for a variety of purposes and audiences that may include expository writing, literary analysis, and creative writing through production of multiple drafts;
- Analyzing and evaluating the influence of diverse perspectives of gender, race, culture, class, sexuality, nationality, and identity represented in literature on authors' points of view;
- Describing the chief characteristics of literary movements or periods and demonstrating how a particular work of literature exemplifies or deviates from the general characteristics of that movement or period; and
- Identifying and evaluating a text's aesthetic qualities.

**Name of program: Nursing**

CIP Code(s): 51.3801; 51.3901

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2018-2019

Credential(s) awarded: AND, Certificate

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

The Associate Degree Nursing (ADN) program at Laramie County Community College (LCCC) is a four-semester program (after the completion of prerequisites and program acceptance) that allows students to take the National Council Licensure Exam (NCLEX-RN), attain licensure as an RN, and become employed immediately after graduation.

**Alignment with needs:** The program is designed to address the nursing shortage in Wyoming, and is provided a WYIN (Wyoming Investment in Nursing) grant each year from the State to fund 4 FT nursing faculty and 3 PT faculty. To help meet the state's workforce demand, the program accepts up to 40 students each semester, with graduates earning an average of \$28.70/hour. A PN option is available for students after completing the first two semesters through LCCC's Practical Nursing (PN) Exploration course, allowing students to work as an LPN as they complete the program. Approximately 90% of each year's graduates take advantage of this certification option while they complete the final two semesters of the program. In addition to Cheyenne, the program offers clinical rotations in Laramie, WY and northern Colorado to accommodate students who reside in these areas.

**Additional Narrative:**

The program is accredited by the Accreditation Commission for Education in Nursing (ACEN) and the Wyoming State Board of Nursing. All FT faculty are required to have an MSN, or have their Master's degree in progress, and all LCCC faculty will meet this requirement in May 2019 (two faculty members will earn their degrees in May.) The ADN program at LCCC implemented the statewide ReNew (Revolutionizing Nursing Education in Wyoming) curriculum in Fall 2016, and the program is articulated with the University of Wyoming's BSN program. The program uses Simulation Lab technology integrated with its traditional clinical rotations to provide students with a variety of patient experiences. To improve efficiency and further enhance student success, the program is reorganizing its clinical site rotation system, and has contracted with ATI, a vendor that provides online nursing and educational and testing support services. The ADN program also reports strong student and graduate outcomes: Over the last two years, it documents a 100% placement of their graduates in the field within 6 months of graduation, with 90% or more of these graduates employed in LCCC's service area, and first-time certification pass rates of 100% on the NCLEX-PN and 86% on the NCLEX-RN.

---

## Northwest College

---

**Name of program: Administrative Assistant**

CIP Code(s): 52.0401

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AAS, Certificate

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

These degree and certificate options prepare students for careers in the computer information systems field. Each option allows students to develop entry level skills needed for employment. The Administrative Assistant option is designed to reflect current needs in business offices and includes software applications and Microsoft Office Specialist certification preparation.

*The Administrative Assistant AAS degree and certificate were discontinued during 2017-18.*

**Name of program: Agriculture (Agriculture Business; Agriculture Communication; Agriculture Education; Agroecology; Animal Science; Farm and Ranch Management; Production Agriculture; Range Management; Veterinary Assistant)**

CIP Code(s): 01.0102; 01.0802; 13.1301; 01.0304; 01.0901; 01.0104; 01.0301; 01.1106; 51.0808

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AS, AAS, Certificate

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

This program prepares students for careers in agribusiness or for transfer into agricultural business, agricultural economics and farm and ranch management programs. The field involves the application of business and economic principles to farming and ranching enterprises and related industries. Employment possibilities are available in businesses which process and market agricultural products, and those which sell products and services to producers. Additional opportunities exist in the operation of farms and ranches or in lending institutions. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Agriculture Communication (AS)**

Career opportunities include work in agriculture-related publications, radio, and television. Transfer options are available regionally and nationally. In order to achieve an Associate of Science in Agriculture Communication, students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Agriculture Education (AS)**

This program will prepare students to transfer to a university program of agriculture education/extension. In order to achieve an Associate of Science in Agriculture Education, students must successfully complete core courses with a "C-" or better to meet program requirements. Upon transfer, graduates will select a more specific program of study for a bachelor's degree which will prepare them for teaching at the secondary level or working in the extension service. Agriculture education majors are also sought after by many industry organizations because of the breadth of the training. Currently there is a national shortage of agriculture education teachers. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Agroecology (AS)**

This program is designed for students interested in the application and integration of biological and physical sciences to sustainable crop production. Students transfer into crop science or agronomy programs for careers in seed, fertilizer, and chemical industries, or in crop production. Transfer into a soil science or ecology curriculum can lead to land management and natural resource management positions. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Animal Science (AS)**

The Animal Science curriculum provides a foundation in biological and physical sciences, augmented by applications to production in western environments. It prepares students to

transfer into an advanced degree program in any of several options within animal science. Graduates find employment in feed and health product companies, livestock management and marketing, breed associations, government agencies, or the meat industry. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

### **Farm and Ranch Management (AAS)**

The Farm and Ranch Program provides marketable, entry-level skills in management for positions in agriculture-related business and industry. Students obtain a foundational knowledge of plant and animal sciences to augment business knowledge and skills. Graduates of this program enter the rapidly expanding job market in businesses which process and market agriculture commodities or businesses which sell goods and services to producers. Students planning to return to a farm or ranch enterprise will also find this program useful. The selection of electives allows students to pursue their areas of interest. Students must complete core courses with a “C-” or better to meet program requirements.

### **Production Agriculture (AAS, Certificate)**

The Production Agriculture Program is designed to provide marketable, entry level training in management of production agriculture enterprises. The program stresses the applied aspects of crop and livestock production, as well as business management. Students acquire necessary background in marketing, finance, management, range science, animal science, and crop and soil sciences. The program includes the flexibility for students to develop greater expertise in their particular area of interest. Some courses in this associate of applied science program will transfer to four-year institutions.

This certificate in Sustainable, Organic, and Alternative Agriculture prepares the students with both a vibrant classroom setting and hands-on work experience in organic, alternative, sustainable, and natural agricultural production. Set in the context of 90,000 acres of land irrigated by Yellowstone Ecosystem snow melt, our program is designed to prepare students to know, articulate, and practice the importance of sustainable production, ecological context, historical precedent, and community engagement.

### **Range Management (AS)**

The Range Management program is designed for transfer to range science, rangeland ecology, or renewable resource programs. It includes courses in applied plant, soil, and animal sciences. Graduates find positions in land management, range livestock management, and wildlife management. Students must successfully complete core courses with a “C-” or better to meet program requirements. Students planning to transfer to a four year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

### **Veterinary Assistant (AAS)**

This program provides the knowledge and animal handling skills required to be an integral team player within veterinary practices, research facilities, or other animal-related facilities. Students will learn to recognize behavioral signs and to care for a patient’s basic needs under the direction of the veterinarian or designate. In addition, students will learn veterinary practice management skills including cleaning facilities and equipment, booking appointments,



communicating with clients, and other receptionist duties. Students become skilled in the care and handling of small and large animals, as well as office management.

**Name of program: Anthropology**

CIP Code(s): 45.0201

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA

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

Anthropology is the study of human beings, focusing on their origin and physical development (biological anthropology) as well as on their way of life (cultural anthropology). Anthropologists study all aspects of human life: social behavior, values, personality, language, government, history, prehistory, technology, art, healing, religion, housing, clothing, and economics.

This program allows students to focus on anthropology for their associate of arts degree. The core provides students the basic coursework in the field, while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year college should consult with their advisor and the appropriate four-year college catalog.

**Name of program: Art**

CIP Code(s): 50.0701

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA

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

The Northwest College Art Department offers a sequence of foundation courses and electives designed to build strong skills for work in the two-dimensional, three-dimensional, and graphic design areas. Upon completion of these foundation courses, along with the general college requirements for graduation, a student may transfer to a four-year college or university, or seek employment with the confidence that comes from sound preparation.

Although the foundation courses are planned with the art program in mind, any student interested in expanding their understanding and enjoyment of art may enroll.

**Name of program: Biology (Biology; Natural Resource Biology)**

CIP Code(s) (six digits): 26.0101; 03.0201

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AS

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

**Biology (AS)**

The study of biology includes courses designed to help students acquaint themselves with the structure and function of living organisms and to appreciate some of the ecological relationships existing in the world of life. The biology courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a "C" or better to meet program requirements. Recommended courses are designed to aid students in completing their four-year degrees. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Natural Resource Biology (AS)**

This program includes areas in **Environmental Biology, Forestry, Resource Management, and Wildlife Management**. The program of Natural Resource Biology provides coursework concerning ecological communities, plant and animal studies, and Geographic Information Systems. The courses required in this program parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a "C" or better to meet program requirements. Transfer courses are designed to aid students in completing their four-year degrees. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

*Pre-Professional Sciences are often combined with Biology programs, but they were reviewed in 2015-16 so are not included in this report.*

**Name of program: English Studies**

CIP Code(s): 23.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA

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

English is a two-year program of study to prepare students for transfer. Students normally transfer as English majors or English/Secondary Education double majors. In order to achieve an Associate of Arts in English degree, students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**Name of program: Nursing (Nursing – Registered Nurse; Nursing – Practical Nurse; Certified Nursing Assistant)**

CIP Code(s): 51.3801; 51.3999; 51.3902

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: ADN, Certificate

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

**Nursing – Registered Nurse (ADN)**

The Associate Degree in Nursing from Northwest College (NWC) provides a solid foundation in the principles and skills of Professional Nursing for students planning to practice as a Registered Nurse. The five-semester program utilizes theory, laboratory, simulation, and clinical learning experiences to prepare the successful graduate as a competent nurse who provides effective, safe, and appropriate nursing care to diverse populations in a variety of health care delivery settings.

There are additional admission and application requirements above and beyond those for general college admission. Prospective students should visit the Nursing Department website ([www.nwc.edu/nursing/](http://www.nwc.edu/nursing/)) for requirements specific to the Nursing Program. The Nursing Department provides information to all prospective students upon request. Applications are accepted each Spring for Admission to the program each fall semester.

The Northwest College Associate Degree Nursing Program is approved by the Wyoming State Board of Nursing (State of Wyoming, State Board of Nursing, 130 Hobbs Ave., Suite B, Cheyenne WY 82002, 307-754-7601) and accredited by the Accreditation Commission for Education in Nursing (ACEN, 3343 Peachtree NE, Suite 850, Atlanta GA 30326, 404-975-5000). Successful completion of the five-semester program of study leads to an Associate Degree in Nursing and eligibility to take the National Council Licensure Examination for Registered Nursing (NCLEX RN).

Individuals desiring to enroll in the five-semester program, licensed Practical Nurses interested in pursuing an RN degree, and transfer students from another nursing program need to visit the Nursing Department website ([www.nwc.edu/nursing/](http://www.nwc.edu/nursing/)) for the most recent application packet, requirements, and admission criteria. If you have further questions, please contact the Nursing Department (307-754-6484).

All prerequisite and Nursing courses require a grade of "C" or above for entry and progression in the program.

**Nursing – Practical Nurse (Certificate)**

This certificate program provides a solid foundation in the principles and theories of nursing for students planning to practice as Licensed Practical Nurses in the health care setting. Students must successfully complete general education requirements and core courses with a "C" or better to meet certificate program requirements.

Students who successfully complete the certificate program will be eligible to take the National Council Licensure Examination for Practical Nursing.

There are additional admission and application requirements above and beyond those for general college admission and prospective students should visit the nursing department website ([www.nwc.edu/nursing/](http://www.nwc.edu/nursing/)) for admission and application requirements specific to the Nursing

Program. The Nursing Department provides information to all prospective students upon request. Applications are accepted each October for spring admissions to the program.

### **Certified Nursing Assistant (Certificate)**

This Northwest College certificate is designed to prepare students to take the national Certified Nursing Assistant examination to acquire state certification by providing basic theory, principles, and skills necessary to provide client/resident care in the health care setting. The student will be made aware of how state and federal laws as well as policies and procedures of the institution govern the practice of the nursing assistant. Special emphasis is placed on the role of the nursing assistant in meeting the physical, psychosocial, mental, spiritual, and cultural needs of the client/resident. The student will be introduced to medical vocabulary and terminology to give the students a working knowledge of medical terms, the use of prefixes, suffixes, word roots, and combined forms of words.

### **Name of program: Robotics Technology**

CIP Code(s): 48.0508

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: Certificate

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

Students who complete this certification program will acquire advanced skills that are necessary in the planning, setup, operation, and safety requirements of using a Computer Numeric Controlled (CNC) plasma cutting machine.

### **Name of program: Communication**

CIP Code(s): 09.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA

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

The communication area offers a variety of coursework for students who plan to transfer to a four-year institution or better understand their communication patterns. Students planning to receive a bachelor of arts degree in this area need to review carefully the degree requirements of the college or university to which they plan to transfer. Speech communication courses are available to students under any degree or certificate plan as either fulfilling humanities requirements or as electives.

This program allows students to explore the field of communication as the basis for their associate of arts degree. The core provides students the basic coursework in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students who are planning to transfer to a four-year program may need to have additional hours

beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Northwest has a nationally recognized forensics squad which represents the college at tournaments throughout the western United States. Forensics is a form of rhetorical scholarship which involves various dimensions: debate, public address, and the interpretation of literature. Forensics serves as a curricular and co-curricular laboratory for improving students' abilities in research, analysis, and oral communication. Typically, forensics activities are conducted in a competitive environment to motivate students and accelerate the learning process. In addition to the competitive speaking program, the Northwest forensics squad performs on campus as well as in the community and works with high school programs throughout the state.

---

## *Northern Wyoming Community College District*

---

### **Name of program: Administrative Assistant**

CIP Code(s): 52.0401

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: Certificate

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

Administrative Assistants are responsible for an array of tasks to help businesses, schools, medical offices and hospitals run efficiently. From scheduling meetings and assisting customers to answering phones and managing filing systems, Administrative Assistants play an important role for organizations big and small. NWCCD's Administrative Assistant Certificate of Completion will prepare you to for immediate employment in a variety of settings

Administrative Assistants are in demand nationwide as organizations ramp up productivity, customer service and workplace efficiency. Technology advancements, such as electronic file archiving, have created job opportunities in settings such as medical offices, hospitals, schools and universities. The U.S. Bureau of Labor Statistics predicts approximately 479,500 jobs will be added to the field of Secretaries and Administrative Assistants from 2012-2022, a 12% growth change. Administrative Assistants coordinate responses, schedule meetings, answer calls, and more, helping maintain order for businesses.

NWCCD's Administrative Assistant students can build on their education and earn an Associate degree in Business.

Our NWCCD Administrative Assistant Certificate of Completion program at Gillette College focuses on the fundamental skills you need to join the workforce immediately. The program, which can be completed in one year, features courses in Accounting, Records Management, Microcomputer Applications, Job Search, Professional Development and Business Communication and Writing. You will also have the opportunity to choose elective courses in

Business to enhance your credentials while learning computer applications such as Microsoft Word, Excel, PowerPoint, Access and Outlook.

**Name of program: Agriculture –  
Agricultural Business, Agricultural Science Education, Animal Science,  
Farrier Science, Horticulture, Rangeland Management**

CIP Code(s): 01.0000, 01.0101, 01.0901, 01.0507, 01.1106

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA, AAS, Certificate

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

The NWCCD Associate of Science degree in Agricultural Science Education prepares you for a variety of careers and further education. This program is uniquely designed to provide students with a solid foundation in general agriculture. Field and lab research, livestock and rangeland management, and food production are all key parts of agriculture science careers. Our program will give you a wide number of courses that allow you to learn about disciplines in agriculture business, horticulture, animal science, rangeland management, and related skills like agriculture computers and communication skills. This field of study will teach you about producing food and fiber, managing natural resources, and researching new and innovative ways to work with agricultural lands. The majority of our students continue on to four-year colleges and universities. We work closely with these schools to make the transfer process as seamless as possible. Graduates in the NWCCD agricultural programs are highly sought after by both the private and public sectors.

The U.S. Bureau of Labor Statistics predicts more than 3,100 new jobs will be added to the Agriculture and Food Science field from 2016-2026, an increase of 7%. A degree in agriculture prepares you for an exciting career in business, industry, government, education, or research. This degree can lead you to a career such as:

- Extension educator
- Food scientist
- Biological technician
- Agriculture science technician
- Farmer/rancher
- Landscape manager
- Agriculture instructor
- Farm manager

Our students learn in state-of-the-art facilities and take advantage of opportunities to compete in the Wyoming Society for Range Management's annual Rangeland Cup. Our students have also competed on the national level, excelling at the Society for Range Management conference, and at the National Post-secondary Agriculture Student Organization conference, traveling to California, Florida, Minnesota and more.

**Name of program: Art**

CIP Code(s): 50.0701

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AFA

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

With regionally and nationally respected instructors, Sheridan College's Visual Art Program offers a diverse array of classes that allow every student to fully develop their artistic professional interests. As an Art student, you will explore several professional and academic career options. Whether you are interested in joining the workforce following completion of your Associate degree or plan to transfer to a four-year college or university, the curriculum is designed to give you the skills to succeed.

Art courses focus on cross-disciplinary practice with an emphasis on the development of both technical and conceptual knowledge. Upon graduating the Visual Art Program, each student will be able to effectively create aesthetic works and be able to successfully articulate their designs to their employers and/or buyers. The Art Program includes disciplines in Ceramics, Painting and Drawing, Sculpture, Digital Media and Digital Photography.

As an Art student, you will experience hands-on learning in the new Whitney Center for the Arts, one of the most advanced, innovative art education centers in the United States. The WCA includes nearly 60,000 square-feet, dedicated to Visual and Performing Arts.

Many art-related career fields continue to grow, according to the U.S. Bureau of Labor Statistics, which predicts between 7-13% job growth by 2022 in fields like graphic design and interior design. Career opportunities and jobs like crafters, multimedia artists, animators and art directors will also continue to grow. With the emergence of multimedia platforms, the next generation of artists will pioneer the ever-changing industry.

**Name of program: Biology**

CIP Code(s): 26.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AS

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

Whether you are interested in managing wildlife populations or discovering new medical breakthroughs, NWCCD's Biology Program will start you on the right path. Offered at both Gillette College and Sheridan College, the Biology Program has two main areas of emphasis: Biochemical and Molecular Biology, and Conservation and Wildlife Biology. As a Biology student, you will tackle important contemporary issues by collecting data, testing hypotheses, and drawing sound conclusions. A degree in Biology from NWCCD will open doors to a career full of possibilities, from working as a game warden to pharmaceutical researcher to a National Park biologist.

As STEM (Science, Technology, Engineering, and Math) careers continue to grow, Biology graduates will find work in a variety of fields. Biologists today are faced with complex issues, like climate change, wildlife management, energy production, and medical practice, presenting Biologists a variety of career opportunities. The Bureau of Labor Statistics predicts between a 5-18% increase in the number of jobs related to biology and wildlife biology by 2022.

Our NWCCD Associate of Science Degree in Biology recently earned national recognition as a team of students was selected as a finalist for the 2015 National Science Foundation's Community College Challenge for their research in biofuel production. Small, interactive classes at both Gillette College and Sheridan College, dedicated faculty with diverse backgrounds, plentiful outdoor research opportunities, and strong collaborations with the University of Wyoming and state agencies provide Biology students an ideal, hands-on learning environment.

**Name of program: Cybersecurity**

CIP Code(s): 11.1003

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AAS, Certificate

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

Computer networking has forever changed the way we work, connect, share, communicate, and more. The industry's incredible growth has generated a variety of security threats that place companies' and their customers' information at risk. Increasing threats have created high demand for trained professionals who can set up, implement, and maintain company- or organization-wide security programs.

Security analysts use problem-solving skills in order to investigate threats, hacks and breaches, determine the causes and modify or repair security systems. With security threats and cyber attacks occurring across the globe, trained Cyber Security analysts are in high demand for businesses and organizations in the public and private sectors. The U.S. Bureau of Labor Statics predicts that by 2022 more than 27,000 new jobs will be added to the information security analyst field, an increase of 37%. Cyber Security analysts implement security strategies and measures to protect an organization's data, information, networks and systems. Duties for Cyber Security analysts continue to expand as cyberattacks increase and target businesses and organizations of all sizes.

NWCCD's Associate of Science and Certificate of Completion options in Cyber Security are designed to help you thrive in today's computer industry. You will be equipped to help companies and organizations protect their systems, data, networks, and information. As a security professional, your responsibilities may vary from developing and implementing information security plans to monitoring security measures and ensuring appropriate security controls are in place. You will also be tasked with researching the latest trends in data security. NWCCD's Cyber Security program is designed to make sure you have those skills and more.

NWCCD's industry-standard curriculum uses tools and techniques embraced by TestOut, CompTIA, Cisco, and Microsoft to help you become a valuable asset to any company. You will learn from expert faculty to develop information security strategies, perform risk analyses, install security software, monitor network traffic, develop emergency response plans, and more.



**Name of program: English**

CIP Code(s): 23.0101

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AA

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

It's true an English degree may lead to a career in literature or creative writing. An English degree can also lead to a number of jobs and careers across several fields, as organizations and companies need employees who can write and communicate clearly and effectively. English graduates are equipped to pursue jobs in communications, public relations, journalism, marketing, teaching, business, technical writing and more. With a strong writing background, many English graduates attend law school and work as attorneys and lawyers.

From marketing and copywriting to reporting and interviewing, English graduates use their communication skills to thrive in today's connected world. An English degree is a stepping stone to many different areas of study because it helps you build critical thinking and reading skills. For example, undergraduate students who are interested in attend law school are encouraged to earn an English degree because it is a precursor to learning how to write, communicate, argue, persuade and articulate your ideas. Demand across numerous job fields is high for workers with English degrees.

Our NWCCD Associate of Arts degree in English features some of the best English faculty and Writing Centers in the state of Wyoming. As a student in our English degree program, you will build strong writing skills, as well as critical thinking and reading abilities. You will study core areas of English literature, including contemporary literature and poetry. NWCCD's English program also provides you with a comprehensive understanding of the English language, helping you learn various uses of the language and communication methods.

The NWCCD English degree program is broadly applicable, and can help you transfer to pursue a Bachelor's degree or use your skills and knowledge in your work. The program provides an introduction to literary traditions, creative writing and critical approaches to literature. Your elective course options will include U.S. Literature, World Literature, creative writing in fiction, nonfiction and poetry, Literature of the Holocaust, Western American Literature and more.

**Name of program: Nursing**

CIP Code(s): 51.3801, 51.3901

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded: AND, Certificate

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

Nurses provide care to patients and are the backbone of the healthcare profession. NWCCD offers an Associate Degree in Nursing and a Certificate in Practical Nursing at both Sheridan College and Gillette College. Upon successful completion of our Associate Degree in Nursing Program, students are eligible to sit for the National Council Licensure Examination for Registered Nurses ([NCLEX-RN](#)). As a student, you will receive hands-on training in our

advanced, high-tech simulation centers and complete extensive clinical training at healthcare facilities around the region. Through our partnership with the University of Wyoming, you also have the option to take courses toward your Bachelor of Science Degree in Nursing and have access to individual advising sessions with a trained RN/BSN Completion Advisor.

Median pay for nurses is over \$65,000 per year and job growth is an impressive 19% a year, far faster than average. By 2026, the Bureau of Labor Statistics predicts that the U.S. alone will need 438,100 more nurses than were employed in 2016. Our aging population, continuous technological advancements, and diversity of career options within the nursing profession make it an incredibly fulfilling and secure career. Nurses have terrific opportunities for promotion and can work at locations around the country and the world.

**Additional Narrative:**

The Northern Wyoming Community College District (NWCCD) Associate Degree Nursing Program is fully approved by the Wyoming State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing.

---

## *Western Wyoming Community College*

---

**Name of program: Anthropology**

CIP Code(s) (six digits): 45.0201

Date this report is presented to the WCCC: February 2019

Academic year review was done: 2017-2018

Credential(s) awarded:

- AA.ANTHROPOLOGY

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

The Anthropology Program at Western Wyoming Community College provides a strong academic base for students looking to enter the workforce or to transfer to a 4-year institution. The program strives to integrate high quality instruction with authentic field experiences in the areas of Archaeology, Cultural Anthropology, Biological Anthropology, and Linguistics. The WWCC Guiding Principles that drive the Anthropology Program are: Learning is Our Purpose and Students are Our Focus.

Anthropology is in a unique position to enhance student engagement and provide marketable employment skills to an emerging workforce. Students completing an AA in Anthropology can and have received job offers at local and regional archaeological firms. Job titles that are actively hiring with an AA or BA in Anthropology are: Project Crew Member/Chief for Cultural Resource Management, Museum Educator, Archivist, Public Relations Officer, and User Experience Analyst. The program striving to reach its full potential as a leader in educational opportunities at Western, including offering online and night courses, field trips, as well as field school and internship opportunities for students to gain practical experience in the fields of Cultural Anthropology, Biological Anthropology, and Archaeology.

While the number of majors has declined recently, with the reallocation of resources for recruitment and retention this number is currently on the rise. Undergraduate research opportunities have seen an increase in participation in the Anthropology Program, with this academic year set to be the largest group to participate in Western's Undergraduate Research Symposium. Despite being down in credit hour enrollment since 2013-14 academic year, this past year (2017-18) we have started to see a recovery in Anthropology enrollment numbers, with running multiple sections of Cultural Anthropology (ANTH 1200) at sustainable fill rates. We are working toward using Cultural Anthropology as the bridge into the other anthropological offerings.

Recent graduates from the program have been accepted to the University of Minnesota, Weber State University, Utah State University, Penn State, Sam Houston University, and Western Washington University. The Anthropology Program regularly communicates and collaborates with Weber State and Western Washington University on transfer agreements, and has an official 2x2 articulation agreement with the University of Wyoming.

**Name of program: Administrative Assistant**

CIP Code(s) (six digits): 52.0408, 52.0401, 51.0716, 50.0102, 51.0710, 51.0716, 11.1099

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded:

- CLERK-TYPIST CERTIFICATE
- ADMINISTRATIVE ASSISTANT CERTIFICATE
- AAS.OFFICE INFORMATION SYSTEMS
- AAS.MEDICAL OFFICE ASSISTANT
- AAS.BUSINESS INFORMATION SYSTEMS
- AAS.BUSINESS INFORMATION SYSTEMS, DIGITAL MEDIA
- AAS.MEDICAL ADMINISTRATIVE ASSISTANT
- MEDICAL ADMINISTRATIVE ASSISTANT CERTIFICATE
- MEDICAL OFFICE ASSISTANT CERTIFICATE
- SOCIAL MEDIA CERTIFICATE

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

The purpose of the Business Information Systems department is to offer associate of applied science programs and certificates for students who wish to enter the job market as administrative assistants, medical office assistants, accounting clerks, digital designers, office managers or other administrative support positions. Course work for students is developed and continually updated to provide courses and programs that are high quality as evidenced by employer evaluations, student evaluations, and advisory council input.

The Business Information Systems programs provide students with a strong foundation in cross-functional business processes and the application of information systems to support them. Students will gain a competitive advantage in today's rapidly changing business environment. Courses in the programs offer instruction in software applications, communications, customer service, decision making, and office procedures, all of which provide students with the skills they need for everyday running of a business.

Two-year pathways are in place for the A.A.S. degrees and semester plans are in place for certificates. The schedule is designed to offer a range of different delivery formats of courses such as: traditional classroom, “flexible time” courses taught in the BIS lab, full online courses as well as partial online courses. Lifelong learning opportunities are available for people who are employed in business, industry, and government who wish to upgrade their technical skill levels in order to keep up with emerging technologies or to improve their employment opportunities and advancement possibilities.

**Additional Narrative:**

In the last two years, the BIS department, with input from the advisory council, developed two new programs and two new certificates.

- Application Software Specialist A.A.S.
- Digital Media A.A.S.
- Social Media certificate (16 credit hours)
- Application Software Specialist certificate (20 hours)

The BIS Advisory Council is a valuable resource to the department. Through continued meetings and dialog with these industry partners, relevant program updates ensure students are best prepared for the jobs in our service area.

**Name of program: Art**

CIP Code(s) (six digits): 50.0711, 50.0605, 50.0701, 50.0605

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded:

- AA.ART FOUNDATION
- AA.CERAMICS
- AA.PHOTOGRAPHY
- AFA.VISUAL ART 2D

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

For students majoring in Art Foundation, the department provides a solid foundation from which to grow. These students go on to be not just artists, but also architects, designers, and media specialists. They also go into fields, such as public relations and marketing. For non-art majors, the Art Department provides courses satisfying humanities and applied arts requirements. In addition, pre-radiology students (currently 109 students with this declared major) are required to take ceramics in order to develop their tactile skills, allowing them to feel for veins prior to draws and sticks, providing just one example of the lesser-known practicalities of the arts. Students also show their work, selling some, in the end-of-semester art show.

Employers need workers with analytical and evaluative skills that allow them to understand and gauge in order to problem solve and organize. In addition to what the Art Department provides academically, it also provides a space for personal enrichment. Many people take courses in ceramics and photography with the plan to sell their work. The Department offers specialized workshops that are generally only a few days long that provide advanced skills and/or unique methods that are available to artists in the area.

WWCC also has an Art Gallery where anyone is welcome to come and view a wide variety of shows that often are not of the traditional variety, allowing people in the area a richer array for

viewing. Receptions are held and often lectures and presentations take place in order to provide education to any and all who attends.

The state of Wyoming has a history of craft (knitting, quilting, crocheting, etc.) that can be built upon with courses, such as Design: Color in addition to the various workshops available. Mixed media displays, which show a way of incorporating craft, are often shown in the Art Gallery and are supplemented by presentations and lectures, sometimes by the artists themselves.

**Additional Narrative:**

The Art Foundation major prepares students to go onto be not only artists, but also architects, designers decorators, media specialists, photographers, and photojournalists. The program continues to provide unique art shows for the public as well as the student shows at the end of each semester. The program has articulation agreements with the University of Wyoming. Faculty members have a Master of Fine Arts in a specialized area of art such as photography or ceramics, PHD. In Art. With the retirement of Dr. Florence McEwin, the search is underway to find someone who can continue to provide unique opportunities for students as well as the surrounding area.

**Name of program: Biology**

CIP Code(s) (six digits): 26.0101, 51.1199, 03.0101

Date this report is presented to the WCCC: February 2019

Academic year review was done: 2017-2018

Credential(s) awarded:

- AS.BIOLOGY
- AS.BIOLOGICAL SCIENCES, GENERAL
- AS.BIOLOGICAL SCIENCES, ORGANIC
- AS.PRE-WILDLIFE BIOLOGY
- AS.PRE-RANGELAND ECOLOGY
- AS.PRE-FORESTRY
- AS.PRE-HEALTH
- AS.NATURAL RESOURCES

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

1. Student Needs

The Biology Department in the Division of Math and Sciences provides a foundational education in biology and biology-related fields to students that intend to pursue baccalaureate degrees at four-year institutions. We also teach standard laboratory and field techniques that prepare our students for professions in the medical sciences, forensic sciences, and natural resource management.

2. Employer Needs

When constructing the lecture and laboratory curriculum for our courses, we included theory and techniques that are ubiquitous in both industry and academia. Molecular biology techniques are commonly used in the medical and forensic sciences, and our biology laboratories require students to (among other techniques) extract, amplify, and clone DNA. Federal and state regulatory agencies are tasked with quantifying and managing populations of a variety of native species, and our biology lectures and laboratories teach the theory of population dynamics and

allow students the opportunity to apply theory to naturally occurring populations in Sweetwater County. Additionally, our laboratories teach students how to identify the diverse biota of southwestern Wyoming. Finally, the critical thinking skills developed by students during the coursework serves as a strong foundation for future employment opportunities and bolsters the student's ability to use data-based reasoning in a range of job duties.

### 3. Service Area Needs

Foundational industries in southwestern Wyoming include natural resource extraction. The privately held companies involved in coal and trona mining, natural gas extraction, and oil production are required to reduce and mitigate environmental impacts from extraction processes. Our students are well-trained to survey for and identify species that may be impacted by mining and oil extraction practices. Additionally, the Rock Springs area hosts a variety of medical, dental, and child and adult care facilities. These facilities commonly employ laboratory techniques that our students have used in a controlled laboratory setting. If successfully employed by one of these facilities, our students will be able to excel at the duties they are assigned.

### 4. State of Wyoming Needs

We expect that the importance of biotechnologies will continue to increase in Wyoming. Our students leave our campus having been taught the theory and application of standard laboratory techniques, and with experience using these techniques in a controlled laboratory environment. Also, Wyoming boasts a higher proportional surface area of public lands relative to private lands than most other states in our nation. Our students receive the necessary foundational education to become responsible land managers. Finally, our faculty stress the importance of critical thinking skills, and encourage our students to think logically and rationally, and construct new and innovative solutions to contemporary environmental and societal issues.

1. Specialized accreditation
2. Advisory committee suggestions/actions
3. Employment information
4. Program improvements in recent years
5. Articulation agreements
6. Faculty qualifications
7. How you plan to advance the program

### **Additional Narrative:**

The various biology associates prepare students to enter numerous programs of study at a University. The Biology program provides the first two years of education to students interested in entering; veterinarian school, medical school, pharmacy school, wildlife and fisheries management, forest management, rangeland management, environmental protection, etc. This program has numerous articulation agreements with the University of Wyoming in the form of 2+2's and course transfer arrangements. Nearly all faculty in this program have terminal degrees (PhD) and bring various specializations. In Anatomy/Physiology, Dr. Bud Chew specializes in heart physiology and Dr. Bill Journey focuses on mammalian neurology. The programs Microbiologist, Dr. Joshua Holmes examines bacterial evolution. The Ecologists for the program, Dr. David Tanner specialization behavioral ecology and Dr. Will Clark focuses on evolutionary ecology. Mrs. Katrina Marcos is the teaching science expert in the program. Many of the faculty are involved in scientific research and provide the students opportunities to experience research at the freshman and sophomore level.

**Name of program: Communication/Speech**

CIP Code(s) (six digits): 09.0101, 09.0401

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded:

- AA.COMMUNICATION
- AA.ORGANIZATIONAL COMMUNICATION
- JOURNALISM CERTIFICATE

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

The program purpose is to influence the factors used to attract, retain and matriculate a number of diverse Communication students with the skills and training that employers want to hire, and who can continue to grow and adapt in the global market. What is distinctive about this program is that we offer a balance between education and experience through real-world projects and real-world experience. The full-time and adjunct faculty present unique backgrounds and experiences through their research and practical examples in the classroom. The department partners with businesses and individuals in the community to create student tailored internship experiences.

The Communication program currently centers around one-degree program: Associate of Arts in Communication. Coursework focuses on the latest trends in the field of communication to give students the most current knowledge for careers in today's workforce. WWCC prepare each student with a solid foundation in communication through coursework that includes written theory, interpersonal communication, public speaking, communication internships, introduction to mass media, nonverbal communication, intercultural communication, gender communication, conflict and communication, and introduction to persuasion. The program consists of degree and transfer requirements. This program has recently undergone drastic changes and was approved by Curriculum meeting on December 10<sup>th</sup>, 2018.

At WWCC, we provide each student a wide range of opportunities to learn about communication and grow as a COMM major. We are looking to bring in guest speakers within our field and currently take students to national debate tournaments and communication conferences. Our numbers are small enough to allow each student the opportunity to perform and grow.

**Additional Narrative:**

Students who graduate from the Communication program will likely find employment in the following fields; public relations, advertising, marketing, journalism, human resources, hospitality, education, librarian, politics, grant writing, community affairs and customer service.

This program has recently undergone drastic changes and was approved by Curriculum meeting on December 10<sup>th</sup>, 2018. This is now part of a national trend in higher education called Pathways. Pathways require a student to select a discipline early in their academic journey and then continue on the degree pathway defined for that specific degree. Full-time faculty have established learning outcomes in all courses within the COMM department. In addition, we have common assessment questions in COMM 2010 and will continue to expand this in COMM 1030.

Our program currently has one articulation agreement. This agreement is a 2+2 agreement with the University of Wyoming. As the program was recently updated and approved by Curriculum

Committee at WWCC in December 2018, the New Year will bring a new 2+2 with the University of Wyoming.

All full-time faculty and adjunct faculty have either a Master's degree in Communication from a regionally accredited university OR 18 graduate level credits in Communication in order to teach specific courses.

We plan to continue to offer the latest trends in the field of communication to give students the most current knowledge for careers in today's workforce. We intent to advance the program by using opportunities like guest lecturers to campus, CHOICES, recruitment events around the state/area, orientation program presentations, and speaking at local high schools to recruit dual/concurrent students. Fostering Communication students' development and expertise in the area of internships and participation in WWCC's research symposium, in addition to student research being presented at conferences, are other ways we expect to advance our program.

**Name of program: English**

CIP Code(s) (six digits): 23.0101, 23.1302

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded:

- AA.ENGLISH
- CREATIVE WRITING CERTIFICATE

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

All students need to learn to write for their college courses. English Composition I provides an introduction to college writing, focusing primarily on essays and introductory research. To continue their writing education, College Composition II delves deeper into research writing at the college level. For students whose majors do not necessarily need a deep dive into research writing, Technical Writing provides lessons on the type of writing done in business and technical industries. In addition, students may opt to take Writing Studies where they learn about how writing works in the world around them.

In addition to meeting their academic writing needs, students benefit from the enrichment provided by literature courses and creative writing. Literature courses in particular aid in the development of higher critical thinking skills, such as analysis and evaluation. Creative writing aids in the ability to create new work, which is also a higher order critical thinking skill. These skills are invaluable for students as they progress through higher education and life.

According to Jeffrey J. Selingo, a researcher of higher education who is not part of academia, the number one skill that people entering the workforce need is communication/writing. This determination is based on the analysis of 20 million job ads. Courses in English provide students the necessary instruction to become proficient, and even excel, in communication and writing. Every course requires students to do oral presentations and produce over twenty pages of graded writing. The main need that is fulfilled is employers know these students can learn and are, therefore, trainable.



Again, the need for people with communication and writing skills is great. There have been people demoted in industry because they couldn't write a report correctly. English courses, especially Technical Writing, aid in developing these skills in a very practical manner.

The state of Wyoming needs more credentialed workers. An AA degree in English provides graduates with the ability to analyze, evaluate, create, communicate, and write, to name just a few. These skills are valuable in any entry-level position and provide a sound foundation for future promotion.

**Additional Narrative:**

Students who graduate with an AA in English are positioned for any entry-level position and are trainable to move beyond the entry-level. Specifically, they are positioned to be copywriters, editorial assistants, journalists, copy-editors, media researchers, public relations officers, records managers, social media managers and proofreaders. If they go on to graduate with a BA, they can be secondary school teachers and obtain higher positions in the fields previously listed.

In recent years, developmental education courses have been streamlined. First the not-for-credit basic writing courses were eliminated. Currently, all students place into the gateway English course, and some take a co-requisite course to help them get through their gateway course. In this manner, all students get their gateway English course completed in their first-year, which is a step toward improving their chances of graduating.

Currently, there are up-to-date articulation agreements with University of Wyoming and Valley City State University. Current articulations are being created with University of Utah, Utah State, Weber, Brigham Young University, Montana State, and Idaho State. All English faculty have either a Masters of Art in English, a Masters of Fine Arts, or doctorate degrees in English. English faculty are teaching courses for service area high schools and are participating in recruitment activities, such as Choices and Senior Day in addition to community events and reaching out to the local high schools.

**Name of program: Nursing**

CIP Code(s) (six digits): 51.3899, 51.1601, 51.3801, 51.3901

Date this report is presented to the WCCC: December 2018

Academic year review was done: 2017-2018

Credential(s) awarded:

- AS.NURSING (TRANSFER)
- AAS.NURSING
- ADN.NURSING
- CERTIFICATE IN PRACTICAL NURSING
- PRACTICAL NURSE CERTIFICATE, SPIN OFF

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

The mission of the Western Nursing Program is to:

- Educate students to become competent, beginning nurses
- Create an environment that facilitates independent learning, critical thinking, mutual respect, and free expression

- Provide access to nursing education throughout southwestern Wyoming
- Design learning experiences to reflect current health care trends, nursing practice, and research
- Cultivate intellectual and personal growth in faculty and students
- Promote student appreciation for lifelong learning to maintain competence and reach maximum potential
- Provide and promote mechanisms for student educational mobility among the levels of nursing

The nursing program serves a wide array of students by providing a synchronous online option for theory. Allowing our students to stay in their area for theory courses and attend online. We are a part of a study sponsored by the National League of Nursing called SSR (Safe Student Report) that was approved by Western's IRB. It will track any student errors or near misses to assist in identifying trends in our program and compare us with other programs anonymously. This will assist in measures to protect our communities.

In 2017 Nursing was incorporated into the Health Science Division and is now under the direction of a Nursing Director and a Division Chair. The Nursing department has MOU's throughout our service area and has been expanding our CNA course offerings due to the need for courses within our service area.

By January 2019 the Nursing department will have a functioning CNA lab in Green River. This lab will accommodate the students due to the overcrowding in our on our main campus in Rock Springs. This lab will also house the Prometrics Testing for CNA as we are a Regional Test Site for our State. We use Simulation on our main campus is Rock Springs and in outreach including Rawlins at CCHec and Evanston at BOCES. Nursing IV Capstone Preceptors are located in RS and across our service area in Rawlins, Evanston, and Star Valley. We have clinical rotations with adjunct faculty in SV for Med/Surg and Long Term Care. Students from all over our service area travel there for the experience.

**Additional Narrative:**

The Nursing program operates under the following specialized accreditation:

CNA: Wyoming State Board of Nursing & Wyoming Department of Health

Nursing Programs: ACEN (Accreditation Commission for Education in Nursing) & Wyoming State Board of Nursing. Last visit from ACEN included a Focused Review due to curriculum changes in April 2017 with full approval granted. Upcoming visit scheduled for Spring 2020. Wyoming State Board of Nursing will come for the visit at the same time.

The Nursing program uses the Systematic Plan of Evaluation for ACEN as a quality indicator, as well as NCLEX-RN pass rates, Graduate and Employer Surveys, Completion rates at 150%, and the program measures Patterns of Employment, Results from National Predictor Exam (ATI), End of Semester Surveys, Nursing IV Management of Care Rubric, ReNEW Semester and End of Program Outcomes, and Nursing Program Review Outcome Assessments.

Full Time Nursing Faculty and Adjunct Nursing Faculty per HLC guidelines (per Division Chairs & Administration) must have a Master's Degree in Nursing or hold a BSN Degree with 18 credit hours of Masters prepared educational course work. For CNA Adjunct Instructors, they must hold a BSN with two years nursing experience, one being within the Long Term Care setting. This Fall we have 10 full time Nursing Faculty all holding Master's Degrees (we have lost one in Rawlins), 5 Adjunct Faculty for Nursing (4 with Masters and 1 set to Graduate in

December this month)- two in RS, one in EV and two in SV. CNA adjunct instructors consist of 12 within our service area.

**Name of program: Psychology**

CIP Code(s) (six digits): 42.0101

Date this report is presented to the WCCC: February 2019

Academic year review was done: 2017-2018

Credential(s) awarded:

- AS.PSYCHOLOGY

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

The primary mission of the psychology program is to provide current, relevant, psychological information that meets the educational goals of a diverse population. The Psychology program provides courses that meet the needs of both transfer and occupational students. The Associate of Arts Degree in Psychology provides the first two years of a baccalaureate program but also supplements majors in other areas. Full-time faculty mentor adjuncts and concurrent faculty to ensure continuity in program curricula, content, and rigor. Students will fulfill social science requirements and are challenged to learn across the subject major of psychology, value intellectual challenges, and become insightful and reflective of their own and others' behavior and mental processes. A student who obtains an Associate of Arts in Psychology might work as a psychiatric nursing assistant or orderly, youth counselor, case technician, human service assistant, or home care aide.

Information provided from the 2017-2018 academic review show that enrollment in Psychology courses have increased consistently over in the past five years. Additionally, despite declining enrollment at Western Wyoming Community College, the number of declared Psychology majors for the past five academic year have continued to increase. This is also reflected by an increase in program graduates. Potential areas for future growth would be to increase concurrent and dual enrollment of high school students, better serving Wyoming state's higher educational needs. Additionally, an ongoing goal is to increase retention and graduation rates. The department has established a 2+2 articulation agreement with the University of Wyoming's Psychology Department, facilitating a seamless transition of WWCC's graduates as they chose to further their studies. Course offerings have been updated to reflect current trends in the field of psychology, for example, establishing Introduction to Health Psychology and Evolutionary Psychology courses. The Psychology Department is currently experiencing a transition period, as two new full-time faculty have come on board beginning Fall 2018. Shane Westfall, PhD, and Nova Hinman, PhD, both bring strong educational and research backgrounds to the department. They envision growing a student-centered research program at Western, fostering environments for experiential learning as well as creating opportunities for students' competitive admission into bachelor's and graduate programs. Community relationships are being strengthened, for example, partnerships for student learning opportunities have been furthered with local mental health providers and research funding has been secured by a local hospital. Future department goals include securing additional external funding resources for the expanding research program, for example to fund laboratory space, software, research expenditures, and student participation at research conferences.