

CERTIFICATION INFORMATION FOR CHEMISTS

I. DEGREES WITH MAJOR IN CHEMISTRY AWARDED BETWEEN JULY 1, 2015 and JUNE 30, 2016.

A "Major" in Chemistry, for the purpose of this report, is defined as a Bachelor's graduate who has successfully completed a degree program, the determination and control of which is the administrative responsibility of the chemistry or other approved department, and a program that also meets requirements for a "Major" concentration as established by the institution granting the degree.

DEGREE LEVEL	Total	Male	Female	U.S. Citizens						
				African American	Asian American	Native American	Hispanic American	White Non-Hispanic	Non-U.S. Citizens	Unknown
Bachelor's, Certified to ACS										
Chemistry (all degrees excluding Biochemistry)	11	6	5	Please provide ethnicities of all graduates Certified to ACS.						
Biochemistry	5	3	2	0	1	0	2	10	0	3
Bachelor's, Not Certified to ACS										
Chemistry (all degrees excluding Biochemistry)	1	0	1	Please provide ethnicities of all graduates Not Certified to ACS.						
Biochemistry	0	0	0	0	0	0	0	1	0	0
Master's	3	2	1	0	0	0	0	1	2	0
Ph.D	-	-	-	-	-	-	-	-	-	-

* Please be sure that the figures provided above agree with the numbers of the names listed on the Records of Graduates page.
 * Ethnicity data is required. The total of all ethnicity numbers must equal the Total count of graduates (Chemistry + Biochemistry for both Bachelor sections).

- 1) Does your department offer a Master's degree in Chemistry? Y
 2) Does your department offer a Ph.D. degree in Chemistry? N

II. GRADUATE STUDENT ENROLLMENT IN CHEMISTRY, FALL OF 2015

	Full-Time		Part-Time	
a. All graduate students:	Male	<u>7</u>	Male	<u>5</u>
	Female	<u>3</u>	Female	<u>0</u>
b. First-year graduate students:	Male	<u>4</u>	Male	<u>0</u>
	Female	<u>0</u>	Female	<u>0</u>
c. Total minority graduate students (U.S. citizens):	Total	<u>0</u>	Total	<u>1</u>
d. Total foreign graduate students:	Total	<u>3</u>	Total	<u>1</u>

III. FACULTY AND UNDERGRADUATES INFORMATION, FALL OF 2015

	Total	Male	Female
a. Chemistry Faculty Information:			
Full-time, tenure-track/tenured	<u>11</u>	<u>8</u>	<u>3</u>
Full-time, permanent instructional staff	<u>5</u>	<u>5</u>	<u>0</u>
All Others (full-time equivalents)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
b. Total undergraduate enrollment at your university/college:	<u>11,112</u>		

2015 - 2016
SUPPLEMENTAL INFORMATION TO BE REPORTED ANNUALLY
BY ACS-APPROVED PROGRAMS

NAME OF UNIVERSITY/COLLEGE Central Washington University

I. FOUNDATION COURSES

List the course(s) that can be used to satisfy the requirement for foundation course work. Please refer to the 2015 ACS Guidelines, pages 11-12 for a more detailed description. If a course contributes to more than one foundation area, please apportion the contact hours.

	Course Catalog Number	Course Title	Total Contact Hours Per Academic Term		Offered (Y or N)	Course Enrollment
			Class	Lab		
Analytical Chemistry	Chem 332	Quantitative Analysis	30		Y	>10
	Chem332L	Quantitative Analysis Lab		60	Y	>10
Biochemistry	Biol 321	Genetics	40	20	Y	>10
	Chem 431	Biochemistry 1	30		Y	>10
	Chem431L	Biochemistry Lab 1		60	Y	>10
Inorganic Chemistry	Chem 350	Inorganic Chemistry	30		Y	>10
Organic Chemistry	Chem 361	Organic Chemistry 1	30		Y	>10
	Chem 362	Organic Chemistry 2	30		Y	>10
	Chem361L	Organic Chemistry Lab 1		60	Y	>10
Physical Chemistry	Chem 381	Physical Chemistry (Thermo)	50		Y	>10

II. IN-DEPTH COURSES

List the courses that can be used to satisfy the requirement for in-depth course work for the certification of students. In-depth courses build on prerequisite foundation course work. Please refer to the 2015 ACS Guidelines, page 12 for a more detailed description.

Course Catalog Number	Course Title	Total Contact Hours Per Academic Term		Offered (Y or N)	Course Enrollment
		Class	Lab		
Biol 323	Microbiology	20	60	Y	>10
Biol 425	Molecular Biotechnology	20	60	Y	>10
Biol 430	Cell Biology	40	30	Y	>10
Chem 345	Environmental Chemistry	30	60	Y	>10
Chem 363	Organic Chemistry 3	30		Y	>10
Chem 382	Physical Chemistry 2	30		Y	>10
Chem 383	Physical Chemistry 3	30		Y	>10
Chem 432	Biochemistry 2	30		Y	>10
Chem 433	Biochemistry 3	30		Y	>10
Chem 452	Instrumental Analysis	30	60	Y	>10
Chem 473	Transition Metals	30		N	0
Chem 488	Colloquium	10		Y	>10
Chem 492	Lab Experience in Teaching Chem	10	30	Y	>10
Chem 505	Current Topics in Chemistry	10		Y	>10
Chem 562	Organic Spectroscopy	30		Y	10
Chem 564	Medicinal Organic Chemistry	30		Y	10
Chem 571	Solid State Chemistry	30		Y	9
Chem363L	Organic Chemistry Lab 2		60	Y	>10
Chem382L	Integrated Lab 1		60	Y	>10
Chem383L	Integrated Lab 2		60	Y	>10

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III. RESEARCH

Course Catalog Number	Course Title	Total Contact Hours Per Academic Term		Offered (Y or N)	Course Enrollment
		Class	Lab		
Chem 295	Research		30	Y	>10
Chem 395	Research		30	Y	>10
Chem 490	Cooperative Education		30	Y	1
Chem 495	Senior Research		30	Y	>10

Chemistry Staff List

COLL/UNIV Central Washington University

The chemistry staff list will show all faculty and instructional staff including those that are retired, separated, and other.

Name	Training	Specialization	Rank						Part Time or Temp		Status					
			Adj	Lect	Instr	Asst	Asso	Prof	PT	Temp	Emp	Sep	Ret	Dec	Other	
Bullock, Eric	Bach: University of Washington Mast: PhD: University of Hawaii	Physical Surface Chemistry	2001			2002				-	-	2001	2007			
Cornell, Caitlyn	Bach: Carleton College Mast: Central Washington University PhD:	Chemistry/Science Education	2009							X	-	2009	2009			
Lygre, David	Bach: Concordia College Mast: PhD: University of North Dakota	Biochemistry	2009			1970	1973	1980		-	-	1970	2009	2008		
Best, Brittany	Bach: Central Washington University Mast: Central WA University PhD:	* Graduate Assistant	2010							X	-	2010	2010			
Magonski, Jozef	Bach: Jagiellonian University Mast: PhD: University of Gdansk, Poland	General		2005						-	X	2005	2010			
Olsen, Kristopher	Bach: Central Washington University Mast: Central Washington Univ. PhD:	* Graduate assistant	2009							X	-	2009	2010			
Helland Jr., Terry	Bach: University of Washington Mast: IP - Central Washington Univ. PhD:	* Graduate Assistant	2011							X	-	2011	2011			
Sarca, Viorel	Bach: Babes-Bolyai University Mast: Babes-Bolyai University PhD: Babes-Bolyai University	Organic		2010						-	X	2010	2011			
Goeden, Terrah	Bach: University of Washington Mast: Central Washington Univ. PhD:	* Graduate Assistant	2010							X	-	2010	2012			
Rosario, Sara	Bach: Central Washington Univ Mast: Central Washington Univ PhD:	Biochemistry * Graduate assistant	2012							-	X	2012	2012			
Shore, T. Cameron	Bach: Central Washington University Mast: Central Washington Univ. PhD:	* Graduate Assistant	2011							X	-	2011	2012			
Abbey, Eric	Bach: Whitman College Mast: University of Oregon PhD: University of Oregon	Organic		2012						-	X	2012	2013			

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			Adj	Lect	Instr	Asst	Asso	Prof	PT	Temp	Emp	Sep	Ret	Dec	Other	
Carter, John	Bach: University of Washington Mast: Central Washington Univ. PhD:	* Graduate Assistant	2011							X	-	2011	2013			
Chen, Bing-Lin	Bach: National Taiwan Normal Univ Mast: Michigan State University PhD: Michigan State University	Chemistry Organic Chemical Engineering		2010						-	X	2010	2013			
Nye, Jesse	Bach: Central Washington University Mast: Central Washington University PhD:	Organic	2011							X	-	2011	2013			
Sigurjonsson, Kristin	Bach: Central Washington Univ Mast: Central Washington Univ PhD:	Organic * Graduate Assistant	2012							-	X	2012	2013			
Bullock, Jeff	Bach: Western Washington University Mast: Western Washington University PhD: IP: Washington State Univ.	General		2013						-	X	2013	2014			
Frank, Michael	Bach: Central Washington University Mast: IP - Central Washington Univ PhD:	* Graduate Assistant	2013							X	-	2013	2014			
Hinz, Daniel	Bach: Central Washington University Mast: IP - Central Washington Univ. PhD:	* Graduate Assistant	2014							X	-	2014	2014			
Siegenthaler, James	Bach: Central Washington University Mast: Central Washington Univ. PhD:	* Graduate Assistant	2014							X	-	2014	2014			
Chamberland, Stephen	Bach: Boston College Mast: PhD: University of CA, Irvine	Organic Synthetic	2008				2008			-	-	2008	2015			
Fadeeva, Tatiana	Bach: Mast: Moscow Inst of Fine Chem Tech PhD: Rutgers University	Analytical		2012						-	X	2012	2015			
Kim, Young	Bach: University of Mississippi Mast: PhD: University of Mississippi	Organic		2013						-	X	2013	2015			
Malmberg, Christopher	Bach: Central Washington University Mast: Central Washington University PhD:	Organic * Graduate Assistant	2015							X	-	2015	2015			

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			Adj	Lect	Instr	Asst	Asso	Prof	PT	Temp	Emp	Sep	Ret	Dec	Other	
Brewer, Alex	Bach: Haskell Indian Nations Univ. Mast: University of Oklahoma PhD: Oregon State University	Environmental		2015						-	X	2015	2016			
Kurtz, Martha	Bach: Northern Arizona University Mast: University Wisconsin-Madison PhD: Arizona State University	Chemistry/Science Education Assigned as Associate Dean 6/2014, not in dept				1995	2001	2008		-	-	1995				
Thomas, Carin	Bach: Humboldt State University Mast: Humboldt State University PhD: University of Nevada-Reno	Biochemistry Toxicology				1995	2001	2010		-	-	1995				
Brown, Anthony	Bach: Central Washington University Mast: Central Washington University PhD:	Chemistry Instructional and Classroom Technician 4			2007					X	-	1996				
Peters, JoAnn (DeLuca)	Bach: Antioch College Mast: PhD: Harvard University	Organic Physical organic					1996	2001		-	-	1996				
Diaz, Anthony	Bach: University of Washington Mast: Western Washington University PhD: Oregon State University	Inorganic Solid-State				2000	2005	2010		-	-	2000				
Johansen, Anne	Bach: University of Oslo, Norway Mast: University of Oslo, Norway PhD: California Institute of Tech.	Analytical Environmental	2000			2002	2008	2013		-	-	2000				
Fabry-Asztalos, Levente	Bach: Washington State University Mast: Washington State University PhD: Washington State University	Organic Medicinal				2003	2009	2014		-	-	2003				
Sorey, Tim	Bach: Eastern Oregon University Mast: PhD: Montana State University	Analytical Chemistry/Science Education				2004	2010			-	-	2004				
Rivera, Dion	Bach: California Polytechnic S.L.O. Mast: PhD: University of Utah	Analytical Physical				2006	2012			-	-	2006				
Rittenhouse, Robert	Bach: Atlantic Union College Mast: PhD: Worcester Polytechnic Inst.	Physical Senior Lecturer - 2013		2007						-	X	2007				
Belofsky, Gil	Bach: Carnegie Mellon University Mast: Colorado State University PhD: The University of Iowa	Organic Natural Products				2008	2014			-	-	2008				

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			Adj	Lect	Instr	Asst	Asso	Prof	PT	Temp	Emp	Sep	Ret	Dec	Other	
Ge, Yingbin	Bach: Univ of Scie & Tech of China Mast: University of Hawaii at Manoa PhD: University of Hawaii at Manoa	Physical Computational				2008	2014			-	-	2008				
Kroll, Todd	Bach: Eastern Washington University Mast: PhD: University of Notre Dame	Biochemistry				2009	2015			-	-	2009				
Swain, Paul Whitney	Bach: Indiana University Mast: PhD: University of Montana	Biochemistry Organic		2013						-	X	2013				
Beng, Timothy	Bach: University of Buea Mast: East Tennessee State Univ. PhD: University of Arkansas	Organic				2015				-	-	2015				
Gillman, Cody	Bach: Central Washington University Mast: IP- Central Washington Univ PhD:	Biochemistry * Graduate Assistant	2015							X	-	2015				
Long, Michael Scott	Bach: New Mexico Highlands Univ Mast: PhD: Pennsylvania State University	Analytical		2015						-	X	2015				
Ricketson, Derek	Bach: Mississippi State University Mast: PhD: University of Oregon	Biochemistry		2015						-	X	2015				

ACS Committee on Professional Training

2016 International Experience Survey

The results of this survey will be compiled and used by CPT to inform their discussion of international experiences for undergraduates. CPT also plans to publish the aggregated data in their newsletter. None of the data will be released in association with the names of the colleges or universities responding to the survey.

College/University Name: Central Washington University

1) Do your undergraduate chemistry majors have the opportunity to participate in international experiences as part of undergraduate education?

Yes

No

2) If so, can undergraduate chemistry majors study abroad during the academic year without lengthening their tenure as undergraduates?

Yes

No

N/A

3) Does your department promote international opportunities (internships, collaborations, etc.) for undergraduate chemistry majors?

Yes

No

Not Available

4) What percentage of your undergraduate chemistry majors are international students?

Less than 1%

1%-5%

6%-10%

11%-25%

More than 25%

5) Are your chemistry majors required to take foreign language instruction?

Yes, exposure to foreign language is required

Foreign language instruction is available but not required

Foreign language instruction is not available at our institution