Fall 15

Institutional Overview of the Colorado School of Mines

OFFICE OF ACADEMIC AFFAIRS
COLORADO SCHOOL OF MINES

Institutional Overview of the Colorado School of Mines

History

In 1873, Mines opened under the auspices of the Episcopal Church. In 1874 the School of Mines became a territorial institution and has been a state institution since 1876 when Colorado attained statehood. The first formal commencement for two graduates was held in 1883. Courses offered to students during the early years of Colorado School of Mines included chemistry, metallurgy, mineralogy, mining engineering, geology, botany, math and drawing. The focus of the early academic programs was on gold and silver and the assaying of those minerals. As the institution grew, its mission expanded to focus specifically on understanding the Earth, harnessing energy and sustaining the environment. In the mid twentieth century Mines became known for its strong ties to the extractive earth science industries and the positive impact of its graduates on these industries.

Facts

- Mines has a student body of approximately 5,794 (4,388 undergraduates 1228 graduate students, and 145 undecided or non degree seekers), a student-to-faculty ratio of 15:1, and an average undergraduate class size of 34 students.
- Entering freshmen have an average ACT score of 30 and most rank in the top 10 percent of their high school graduating class. The average GRE Quant score for graduate students is 159.
- Mines ranked first engineering school in USA TODAY College's "The top 10 engineering colleges in the U.S."
- Mines ranked first in public university in the state, #53 in nation by *The Business Journals.*
- Mines ranked first public school in the state for best value colleges (average starting salary for graduates: $66,700), and second in the nation by New York-based Smart Asset.
- Mines ranked seventh in Brookings' 'value-added' college rankings.
- Mines ranked 22nd in the 2014-2015 Learfield Sports Directors Cup by the National Association of Collegiate Directors of Athletics.
- Mines ranked 29th in U.S. News and World Report's Top Public Schools in "2015 Best Colleges." Mines also ranked 41st in Best Engineering Programs (where the highest degree is a doctorate), 56th for graduate schools in Best Engineering Schools, and 75th for Best National Universities.
- Mines has 180 student organizations, including the country's largest student chapter of the Society of Women Engineers.
- Mines has 18 intercollegiate athletic teams that compete in NCAA Division II.
- Mines is home to the $9 million National Science Foundation funded Renewable Energy Materials Research Science and Engineering Center — a strategic partnership with the National Renewable Energy Laboratory, the University of New South Wales and Imperial College London.
- In 2014, Mines received awards totaling more than $63 million with nearly half funded by private industry.
- Undergraduate tuition and fees for 2015-16 is $15,225 for residents and $32,700 for non-residents (14 credits per semester load).

Mines Today

The Colorado School of Mines' mission statement is "Education and research in engineering and science to solve the world's challenges related to the earth, energy and the environment."

Mines has the highest admission standards of any public university in Colorado and among the highest of any public university in the nation. Mines awards baccalaureate degrees in the following programs:

Applied Mathematics and Statistics
Chemical and Biochemical Engineering
Chemical Engineering
Chemistry
Civil Engineering
Computer Science
Economics
Electrical Engineering
Mechanical Engineering
Physics
Environmental Engineering
Geological Engineering
Geophysical Engineering
Metallurgical/Materials Engineering
Mining Engineering
Petroleum Engineering

Of the 924 baccalaureate graduates in 2014-2015, 35.3% were in the geological, mining, petroleum, economics and business, and geophysical engineering programs, 22.1% were in the metallurgical and materials, chemical and biological engineering, physics and chemistry programs, the remaining 42% were awarded in the civil, electrical, mechanical and environmental engineering, math and statistics, and computer science programs.

This dichotomy between specificity of mission in legacy areas and the flux of a significant number of undergraduate students to other programs has been an issue at Mines for at least two decades. This, in part, prompted the institution to undertake a significant academic reorganization in order to: 1) produce organizational units that produce distinction for our degrees and 2) deploy faculty in a way that addressed long-standing structural imbalances.

In Spring 2011, at the direction of the Provost, the leadership and faculty began discussing the need for and advantages of realigning their administrative structures. With faculty input, Mines developed a reorganizational plan that resulted in the creation of three colleges:

- College of Engineering and Computational Sciences (CECS)
- College of Applied Science and Engineering (CASE)
- College of Earth Resource Sciences and Engineering (CERSE)

Institutional Data of Colorado School of Mines

Faculty Profile

At the start of the 2015-2016 academic year, the Colorado School of Mines (CSM) tenure/tenure-track (T/TT), teaching faculty (TF), visiting faculty (LTE), and transitional faculty totals **290.2** full-time equivalent faculty and is composed of **25.5% female** faculty and **74.5% male** faculty. Nearly one-third (28%) of the faculty have been hired in the last three years and 19% have been at CSM for more that 16 years. In the 2016-2017 academic year 43 searches for new faculty are being performed. With these new faculty added, it is projected to have **328.95 FTEs.** Attrition was not considered in this projection.

Full-time equivalent faculty: 2014-2015

Colleges	T/TT	TF	LTE	Transitional	Total FTE
College of Engineering and Computational Sciences (CECS)	70	29.4		2	**101.4**
College of Applied Science and Engineering (CASE)	65	19.5		3.8	**88.3**
College of Earth Resource Sciences and Engineering (CERSE)	71.2	21	1	3	**96.2**
CSM TOTAL	**206.2**	**69.9**	**1**	**8.8**	**285.9**

Full-time equivalent faculty: 2015-2016

Colleges	T/TT	TF	LTE	Transitional	Total FTE
College of Engineering and Computational Sciences (CECS)	72.5	32.45		2.5	**107.45**
College of Applied Science and Engineering (CASE)	65	20		1.75	**86.75**
College of Earth Resource Sciences and Engineering (CERSE)	68	25		3	**96**
CSM TOTAL	**205.5**	**77.45**		**7.25**	**290.2**

*Full-time equivalent faculty projected estimate for: 2016-2017 **

Colleges	T/TT	TF	LTE	Transitional	Total FTE
College of Engineering and Computational Sciences (CECS)	81.5	37.45		2.5	**121.45**
College of Applied Science and Engineering (CASE)	77	22		1.5	**100.5**
College of Earth Resource Sciences and Engineering (CERSE)	81	27		3	**111**
CSM TOTAL	**239.5**	**86.45**		**7**	**332.95**

- *Attrition was not considered in this table*

Student Profile

Nearly 4,581 students were enrolled in bachelor's programs in Fall 2015. Undergraduate students represent 75.3% of the student body. Graduate students (699 master's students and 608 doctoral students) represent 22.2%, and the undecided or non-degree seeker students represent 2.5% of the enrolled students.

Student Enrollment: Fall 2015

	BS	MS-non Thesis	MS-Thesis	PhD	GR	Total
CECS	1,991	173	70	170	413	2,404
College						
Applied Math & Statistics	92	6	9	21	36	128
Civil & Environmental Enginrng	292	59	20	56	135	427
Electrical Enginrg & Comp Sci	510	40	16	39	95	605
Mechanical Engineering	1,097	68	25	54	147	1,244
Epics						
CASE	1,156	13	84	235	332	1,488
College						
Chemical & Biological Engineer	681	1	5	61	67	748
Chemistry	78	2	11	45	58	136
Metallurgical & Materials Eng	164	5	50	75	130	294
Physics	233	5	18	54	77	310
CERSE	1,289	157	202	203	562	1,851
College						
Economics and Business	22	100	18	26	144	166
Geology	133	13	103	60	176	309
Geophysics	156	8	28	44	80	236
Liberal Arts & Intern'l Study		4	3		7	7
Mining	103	19	10	26	55	158
Petroleum	875	13	40	47	100	975
TOTAL	4,436	343	356	608	1,307	5,743

Notes: Numbers were gathered from Institutional Research Mines Facts Enrollment Report, http://inside.mines.edu/UserFiles/File/president/IR/EnrollmentReports/Fall2015EnrollmentReport.pdf" Faculty Numbers were obtained from Academic Affairs Planner Spreadsheet for FY16. Undeclared students were not included in this table.

The undergraduate student/faculty ratio is 15.3 to 1 for the 2015-2016 academic year, but there is a considerable range (from 1.6 to 1 in Economics and Business to 58.3 to 1 in Petroleum Engineering) among the academic departments.

Student / Faculty Ratio: Fall 2015

	Total	BS	Student / Faculty Ratio
CECS	**107.45**	**1,991**	**18.53**
College			
Applied Math & Statistics	21.00	92	4.38
Civil & Environmental Enginrng	25.28	292	11.55
Electrical Enginrg & Comp Sci	27.00	510	18.89
Mechanical Engineering	28.50	1,097	38.49
Epics	5.67		
CASE	**86.75**	**1,156**	**13.33**
College			
Chemical & Biological Engineer	23.50	681	28.98
Chemistry	21.00	78	3.71
Metallurgical & Materials Eng	17.50	164	9.37
Physics	24.75	233	9.41
CERSE	**96.00**	**1,289**	**13.43**
College			
Economics and Business	13.50	22	1.63
Geology	20.00	133	6.65
Geophysics	10.00	156	15.60
Liberal Arts & Intern'l Study	28.00		
Mining	9.50	103	10.84
Petroleum	15.00	875	58.33
TOTAL	**290.20**	**4,436**	**15.29**

Notes: Numbers were gathered from Institutional Research Mines Facts Enrollment Report, http://inside.mines.edu/UserFiles/File/president/IR/EnrollmentReports/Fall2015EnrollmentReport.pdf" Faculty Numbers were obtained from Academic Affairs Planner Spreadsheet for FY16. Undeclared students were not included in this table.

Mines awarded 924 bachelor's degrees, 346 master's degrees, and 124 doctoral degrees in school year 2014-2015. Students in the College of Engineering and Computational Sciences (CECS) earned 42.6% of the total degrees awarded, students in the College of Earth Resource Sciences and Engineering (CERSE) earned 35.3%, and students in the College of Applied Science and Engineering (CASE) earned 22.1% of total degrees awarded.

Degrees Awarded: 2014–2015

	BS	MS Non-Thesis	MS Thesis	MS Total	PhD Total	GR Total	Total Degrees	%
CECS	**419**	**95**	**42**	**137**	**38**	**175**	**594**	**42.6%**
College								
Applied Math & Statistics	24	1	11	12	2	14	**38**	2.7%
Civil & Enviromental Engineering	87	42	13	55	15	70	**157**	11.3%
Electrical Engineering & Computer Science	118	32	6	38	12	50	**168**	12.1%
Mechanical Engineering	190	20	12	32	9	41	**231**	16.6%
Epics								
CASE	**216**	**18**	**26**	**44**	**48**	**92**	**308**	**22.1%**
College								
Chemical & Biological Engioneering	102	8	6	14	10	24	**126**	9.0%
Chemistry	13	1	3	4	14	18	**31**	2.2%
Metallurgical & Materials Engineering	37	7	11	18	17	35	**72**	5.2%
Physics	64	2	6	8	7	15	**79**	5.7%
CERSE	**289**	**79**	**86**	**165**	**38**	**203**	**492**	**35.3%**
College								
Economics and Business	8	50	0	50	5	55	**63**	4.5%
Geology	35	3	41	44	10	54	**89**	6.4%
Geophysics	29	0	16	16	9	25	**54**	3.9%
Liberal Arts & International Studies		8		8		8	**8**	0.6%
Mining	40	18	1	19	4	23	**63**	4.5%
Petroleum	177	0	28	28	10	38	**215**	15.4%
TOTAL	**924**	**192**	**154**	**346**	**124**	**470**	**1394**	**100.0%**

***Note**: CSM Cognos Student Report: Degrees Awarded by Academic Year (2015). October 19, 2015.*

Females represent 30% of Fall 2015 enrollment at the undergraduate level and 26% at the graduate level. The proportion of female students varies substantially among programs, however, with a low of 13% female in Mining and a high of 51% in Geophysics at the undergraduate level. Among the graduate programs, 71% is the highest proportion of females (Liberal Arts and International Studies) and 12% is the lowest (Mechanical Engineering.)

Distribution of Students by Gender: Fall 2015

	Undergraduate Female Students	Undergraduate Male Students	Graduage Female Students	Graduate Male Students
CECS	**31%**	**69%**	**23%**	**77%**
Applied Math & Statistics	30%	70%	42%	58%
Civil & Environmental Enginrng	40%	60%	44%	56%
Electrical Enginrg & Comp Sci	14%	86%	20%	80%
Mechanical Engineering	37%	63%	12%	88%
Epics		100%		
CASE	**35%**	**65%**	**27%**	**77%**
Chemical & Biological Engineer	35%	65%	28%	72%
Chemistry	22%	78%	36%	64%
Metallurgical & Materials Eng	41%	59%	26%	74%
Physics	34%	66%	18%	82%
CERSE	**26%**	**74%**	**28%**	**72%**
Economics and Business	23%	77%	14%	86%
Geology	55%	45%	40%	60%
Geophysics	51%	49%	34%	66%
Liberal Arts & Intern'l Study			71%	29%
Mining	13%	87%	18%	82%
Petroleum	19%	81%	13%	87%
Undecided	37%	63%		
TOTAL	**30%**	**70%**	**26%**	**74%**

***Note**: CSM Cognos Student Report: Degrees Awarded by Academic Year (2015). October 19, 2015.*

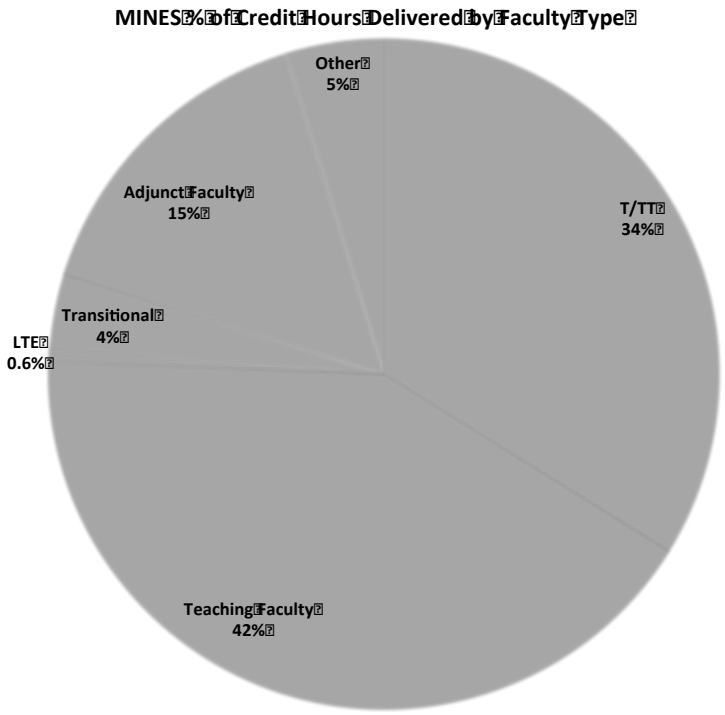
At the undergraduate level, 61% of the student body is comprised of Colorado residents while at the graduate level, 54% of students are residents. As is the case with gender, the proportion of resident and non-resident students varies by department. At the undergraduate level, the range of residents by department is 45% to 87%. At the graduate level, 82% of the Applied Math and Statistics students are residents while only 39% of the Mining Engineering majors are residents.

Course and Credit Hour Profile

One-fifth of all credit hours generated in 2014-2015 were in courses with enrollment of less than 25 students. Nearly 29% of credit hours were generated in courses with enrollment of 81 or more students. Most of the high enrollment courses were at the freshman and sophomore levels, although the College of Earth Resource Sciences and Engineering (CECS) offered nearly half (49%) of their large classes (with enrollment of 81 or more students) at the junior and senior levels.

In academic year 2014-2015, the College of Engineering and Computational Sciences (CECS) generated 40% of the total credit hours, while the College of Earth Resource Sciences and Engineering (CERSE) generated 33% and the College of Applied Science and Engineering (CASE) generated 27%.

At CSM, in academic year 2014-2015 teaching faculty and tenure/tenure track faculty taught the majority of classes and generated the majority of credit hours. Transitional retirees, adjunct faculty, and administrators teach on an as needed basis. At the 100 and 200 level (which are first and second-year courses) teaching faculty generated 60% of credit hours, tenure/tenure track faculty delivered 13%, and other faculty (adjuncts, transitional retirees, and administrators) delivered the remaining 27%. Tenure/tenure track faculty delivered 47% of the junior and senior level courses, while teaching faculty delivered 30%, and other faculty delivered the remaining 23%. Tenure/tenure track faculty delivered 77% of the graduate course credits.



Notes: *Notes: Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty members who were on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015. (Census for Spring and End of Term for Fall) All faculty members who were on transitional retirement (TRAN) are counted at the "FTE rate" associated with their position (typically 0.5). They are counted in Fall, Spring or both depending on their contract. Faculty paid from external sources are assigned an FTE based on their position, not based on funding source. Visiting Faculty was counted in the LTE (Limited Term Employment) section. Credit hours production is counted by multiplying the class maximum number of credit hours by the actual enrollment by the faculty member percentage of responsibility.*

Course Offerings by Class Size, Level and Weighted by Credit Hour (Fall 2014-Spring 2015)

Departments	Class Level	Class Sizes LT25	25-50	51-80	81 and Higher	Total Credit Hours
Colltege of Engineering and Computational Sci		**10,415**	**26,622**	**9,919**	**9,546**	**56,502**
Applied Mathematics and Statistics	100-200	413	9,535	-	3,019	12,967
	300-400	412	3,213	420	249	4,294
	500-600	706	-	-	-	706
Civil and Environmental Engineering	100-200	25	-	1,929	-	1,954
	300-400	945	1,586	1,238	948	4,716
	500-600	1,267	294	-	-	1,561
College of Engr & Comp Sci - Admin	100-200	420	116	-	-	536
	300-400	254	39	171	-	464
	500-600	17	-	-	-	17
Electrical Eng and Computer Science	100-200	5	3,533	738	-	4,276
	300-400	858	3,456	1,415	438	6,167
	500-600	859	264	-	-	1,123
EPICS	100-200	2,669	1,728	-	464	4,861
	300-400	55	114	-	1,620	1,789
Mechanical Engineering	100-200	84	624	204	-	912
	300-400	448	1,821	3,649	2,807	8,725
	500-600	979	300	156	-	1,435
Colltege of Applied Science and Engineering		**4,644**	**5,552**	**8,343**	**18,758**	**37,297**
Chemical and Biological Engineering	100-200	195	843	1,217	1,038	3,293
	300-400	753	1,880	2,007	356	4,996
	500-600	210	162	-	-	372
Chemistry and Geochemistry	100-200	266	273	1,268	7,490	9,297
	300-400	357	565	639	472	2,033
	500-600	301	-	-	-	301
College of Applied Sci & Engr Admin	500-600	17	-	-	-	17
Metallurgical and Mat. Eng	100-200	-	129	225	843	1,197
	300-400	795	1,109	739	-	2,643
	500-600	617	78	-	-	695
Physics	100-200	-	207	531	8,559	9,297
	300-400	664	306	1,717	-	2,687
	500-600	470	-	-	-	470
College of Earth Resource Sci and Engineering		**11,802**	**13,305**	**8,277**	**13,273**	**46,657**
College Earth Res. Sci & Engr-Admin	300-400	-	-	183	609	792
Economics and Business	100-200	-	-	-	2,850	2,850
	300-400	454	978	1,281	1,026	3,739
	500-600	794	1,053	-	-	1,847
Geology and Geological Engineering	100-200	-	363	104	2,644	3,111
	300-400	506	1,162	232	-	1,900
	500-600	842	410	-	-	1,252
Geophysics	100-200	-	390	183	-	573
	300-400	390	1,218	-	-	1,608
	500-600	475	75	-	-	550
Liberal Arts and Intl Studies	100-200	4,548	942	2,895	-	8,385
	300-400	1,850	3,888	-	-	5,738
	500-600	249	-	-	-	249
Mining Engineering	100-200	-	246	609	-	855
	300-400	409	1,371	-	678	2,458
	500-600	678	-	-	-	678
Petroleum Engineering	100-200	-	-	744	273	1,017
	300-400	175	744	2,046	5,193	8,158
	500-600	432	465	-	-	897
TOTAL		**26,860**	**45,479**	**26,539**	**41,577**	**140,455**

Notes: Student Credit hours delivered by College. Freshman-Sophomore Level Classes (100-200), Junior-Senior Level (300-400), Graduate Level (500-600). Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty that was on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015 (Census for Spring and End of Term for Fall).

CSM % of Credit Hours Delivered by Faculty Type (Fall 2014 – Spring 2015)

% OF CREDIT HOURS DELIVERED	100-200							300-400							500-600						
100-600 LEVEL	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 100-200	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 300-400	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 500-600
Engineering/Computational Sci	6%	42%	2%	0%	42%	8%	**100%**	39%	40%	0%	2%	14%	4%	**100%**	87%	3%	1%	4%	3%	1%	**100%**
Applied Mathematics and Statistics	8%	38%	0%	0%	47%	7%	**100%**	51%	41%	0%	0%	8%	0%	**100%**	96%	4%	0%	0%	0%	0%	**100%**
Civil and Environmental Engineering	0%	52%	28%	0%	20%	0%	**100%**	18%	57%	2%	6%	12%	4%	**100%**	71%	8%	3%	7%	9%	3%	**100%**
College of Engr & Comp Sci - Admin	0%	0%	0%	0%	100%	0%	**100%**	37%	0%	0%	0%	55%	8%	**100%**	0%	0%	0%	0%	94%	6%	**100%**
Electrical Eng and Computer Science	11%	60%	0%	0%	4%	25%	**100%**	34%	46%	0%	0%	10%	9%	**100%**	98%	2%	0%	0%	0%	0%	**100%**
EPICS	0%	31%	0%	0%	69%	0%	**100%**	0%	0%	0%	0%	100%	0%	**100%**	0%	0%	0%	0%	0%	0%	**0%**
Mechanical Engineering	8%	86%	0%	0%	6%	0%	**100%**	57%	36%	0%	3%	2%	2%	**100%**	93%	0%	0%	7%	0%	0%	**100%**
Applied Science & Engineering	15%	77%	0%	5%	3%	0%	**100%**	65%	18%	0%	5%	2%	10%	**100%**	83%	1%	0%	6%	2%	8%	**100%**
Chemical and Biological Engineering	23%	57%	0%	0%	20%	0%	**100%**	54%	35%	0%	7%	2%	2%	**100%**	91%	2%	0%	4%	1%	2%	**100%**
Chemistry and Geochemistry	15%	74%	0%	11%	0%	0%	**100%**	97%	0%	0%	0%	0%	3%	**100%**	96%	0%	0%	4%	0%	0%	**100%**
College of Applied Sci & Engr Admin	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Metallurgical and Mat. Eng	81%	19%	0%	0%	0%	0%	**100%**	71%	10%	0%	1%	5%	13%	**100%**	71%	0%	0%	13%	4%	12%	**100%**
Physics	4%	95%	0%	0%	0%	0%	**100%**	55%	9%	0%	9%	1%	26%	**100%**	85%	0%	0%	0%	2%	13%	**100%**
Earth Resource Sci & Enginring	21%	64%	1%	4%	10%	0%	**100%**	46%	25%	0%	5%	16%	8%	**100%**	67%	7%	0%	9%	11%	5%	**100%**
College Earth Res. Sci & Engr-Admin	0%	0%	0%	0%	0%	0%	**0%**	0%	0%	0%	0%	0%	0%	**0%**	0%	0%	0%	0%	0%	0%	**0%**
Economics and Business	0%	100%	0%	0%	0%	0%	**100%**	17%	23%	0%	10%	49%	1%	**100%**	54%	17%	0%	25%	4%	0%	**100%**
Geology and Geological Engineering	35%	62%	0%	0%	3%	0%	**100%**	66%	4%	0%	22%	0%	7%	**100%**	88%	0%	0%	3%	5%	4%	**100%**
Geophysics	100%	0%	0%	0%	0%	0%	**100%**	79%	0%	0%	0%	3%	18%	**100%**	66%	0%	0%	0%	27%	7%	**100%**
Liberal Arts and Intl Studies	18%	62%	0%	0%	19%	0%	**100%**	34%	49%	0%	8%	5%	4%	**100%**	78%	8%	0%	0%	7%	6%	**100%**
Mining Engineering	29%	0%	0%	71%	0%	0%	**100%**	34%	0%	0%	0%	42%	23%	**100%**	51%	0%	0%	0%	20%	29%	**100%**
Petroleum Engineering	8%	73%	13%	5%	0%	0%	**100%**	55%	28%	0%	0%	9%	9%	**100%**	71%	8%	0%	0%	20%	0%	**100%**
Grand Total	**13%**	**60%**	**1%**	**3%**	**20%**	**3%**	**100%**	**47%**	**30%**	**0%**	**4%**	**13%**	**7%**	**100%**	**77%**	**5%**	**0%**	**7%**	**7%**	**4%**	**100%**

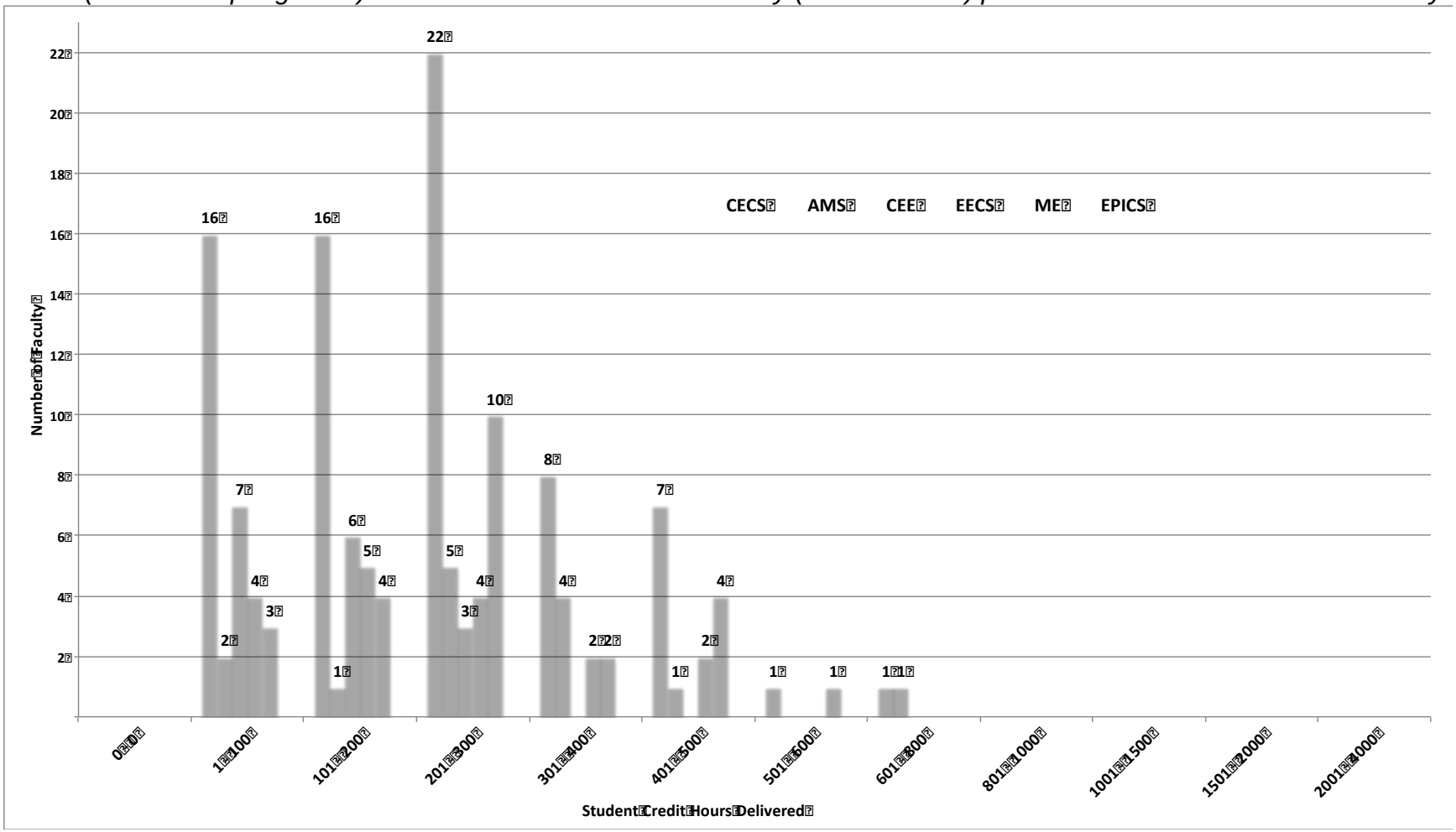
Notes: *Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty that were on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015. (Census for Spring and End of Term for Fall) All faculty that were on transitional retirement (TRAN) are counted at the "FTE rate" associated with their position (typically 0.5). They are counted in Fall, Spring or both depending on their contract. Faculty paid from external sources are assigned an FTE based on their position, not based on funding source. Visiting Faculty was counted in the LTE (Limited Term Employment) section. Credit hours production is counted by multiplying the class maximum number of credit hours by the actual enrollment by the faculty member percentage of responsibility. All faculty that were on transitional retirement (TRAN) are counted at the "FTE rate" associated with their position (typically 0.5). They are counted in Fall, Spring or both depending on their contract. Faculty paid from external sources are assigned an FTE based on their position, not based on funding source. Visiting Faculty was counted in the "Other" portion of the chart.*

CSM Credit Hours Delivered by Faculty Type (Fall 2014 - Spring 2015)

CREDIT HOURS DELIVERED	100-200							300-400							500-600							
100-600 LEVEL	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 100-200	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 300-400	T/TT	Teaching Faculty	LTE	Transitional	Adjunct Faculty	Other	Total CH 500-600	TOTAL
Engineering/Computational Sci	1,588	10,810	549		10,595	1,964	**25,505**	10,269	10,434	111	590	3,732	1,019	**26,155**	4,230	169	45	201	157	41	**4,842**	**56,502**
Applied Mathematics and Statistics	1,038	4,930			6,103	896	**12,967**	2,200	1,755			339		**4,294**	681	25					**706**	**17,967**
Civil and Environmental Engineering	2	1,010	549		393		**1,954**	830	2,705	111	306	561	204	**4,716**	1,111	123	45	102	141	40	**1,561**	**8,231**
College of Engr & Comp Sci - Admin					536		**536**	171				254	39	**464**					16	1	**17**	**1,016**
Electrical Eng and Computer Science	473	2,580			156	1,068	**4,276**	2,099	2,857			645	566	**6,167**	1,105	18					**1,123**	**11,566**
EPICS		1,505			3,356	-	**4,861**					1,789		**1,789**								**6,650**
Mechanical Engineering	75	786			51		**912**	4,970	3,117		284	144	210	**8,725**	1,333	3		99			**1,435**	**11,072**
Applied Science & Engineering	3,542	17,793		1,090	660	-	**23,084**	8,010	2,228		655	278	1,189	**12,359**	1,537	11		120	37	152	**1,856**	**37,299**
Chemical and Biological Engineering	770	1,863			660		**3,293**	2,691	1,725		373	100	109	**4,996**	340	8		15	3	8	**372**	**8,661**
Chemistry and Geochemistry	1,389	6,861		1,048			**9,297**	1,981					52	**2,033**	289			12			**301**	**11,631**
College of Applied Sci & Engr Admin															17						**17**	**17**
Metallurgical and Mat. Eng	972	225					**1,197**	1,868	251		39	145	340	**2,643**	491	3		93	26	83	**695**	**4,535**
Physics	411	8,844		42		-	**9,297**	1,471	252		243	33	688	**2,687**	401				9	62	**472**	**12,456**
Earth Resource Sci & Enginring	3,506	10,762	137	664	1,723		**16,791**	11,221	6,011		1,267	3,922	1,973	**24,393**	3,655	407		497	613	300	**5,473**	**46,657**
College Earth Res. Sci & Engr-Admin								792						**792**								**792**
Economics and Business		2,850					**2,850**	642	853		381	1,815	48	**3,739**	1,005	311		465	66		**1,847**	**8,436**
Geology and Geological Engineering	1,078	1,928			105		**3,111**	1,259	82		424		135	**1,900**	1,104			32	66	50	**1,252**	**6,263**
Geophysics	573						**573**	1,270				48	290	**1,608**	365				147	39	**550**	**2,731**
Liberal Arts and Intl Studies	1,527	5,240			1,618		**8,385**	1,967	2,823		462	277	210	**5,738**	195	21			18	15	**249**	**14,372**
Mining Engineering	246			609			**855**	841				1,044	573	**2,458**	346				135	197	**678**	**3,991**
Petroleum Engineering	82	744	137	55			**1,017**	4,450	2,253			738	717	**8,158**	640	75			182		**897**	**10,072**
Grand Total	**8,635**	**39,365**	**686**	**1,753**	**12,978**	**1,964**	**65,380**	**29,499**	**18,672**	**111**	**2,512**	**7,932**	**4,181**	**62,907**	**9,421**	**587**	**45**	**818**	**807**	**493**	**12,171**	**140,457**

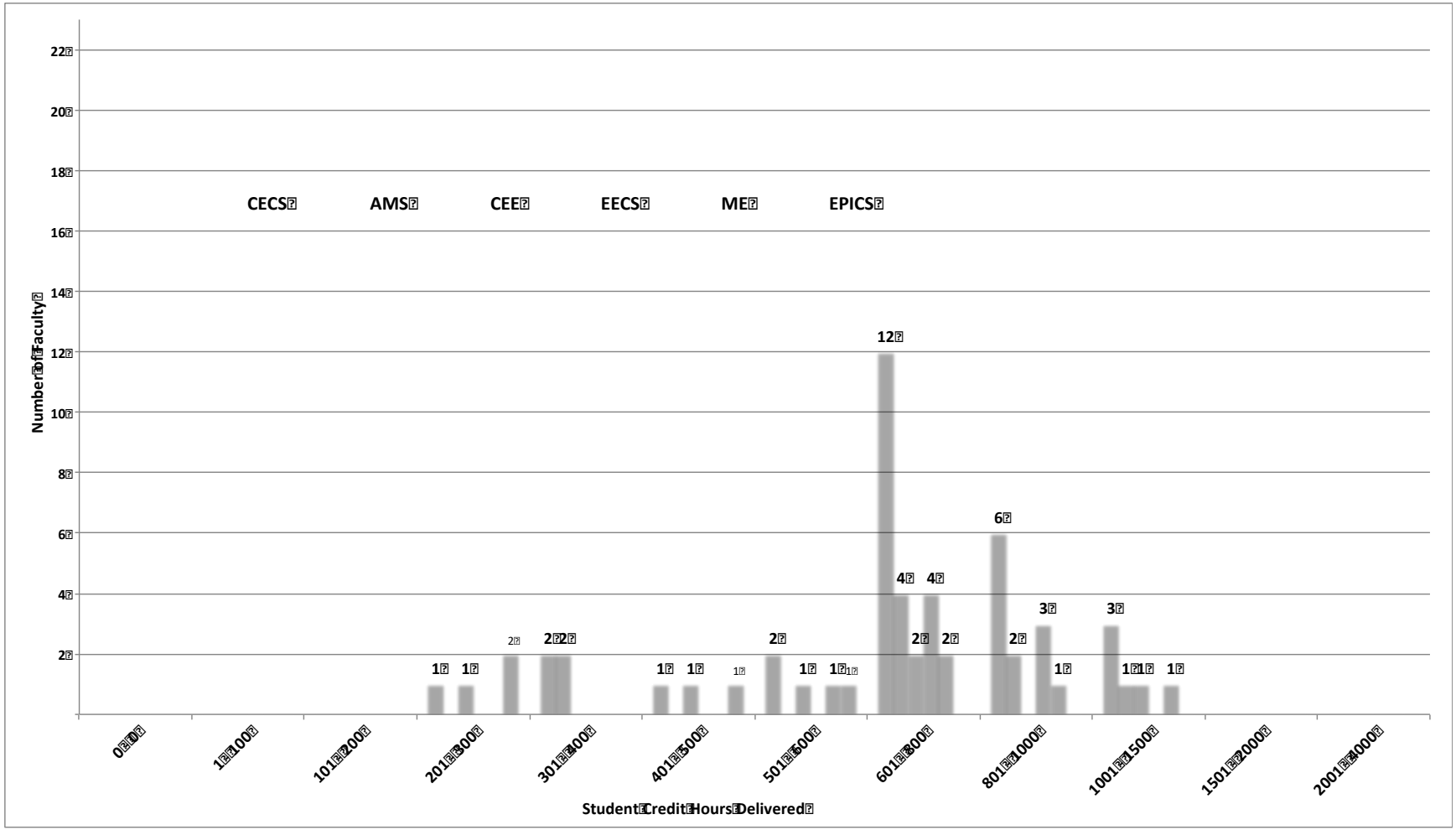
Notes: *Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty that were on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015. (Census for Spring and End of Term for Fall) All faculty that were on transitional retirement (TRAN) are counted at the "FTE rate" associated with their position (typically 0.5). They are counted in Fall, Spring or both depending on their contract. Faculty paid from external sources are assigned an FTE based on their position, not based on funding source. Visiting Faculty was counted in the LTE (Limited Term Employment) section. Credit hours production is counted by multiplying the class maximum number of credit hours by the actual enrollment by the faculty member percentage of responsibility. All faculty that were on transitional retirement (TRAN) are counted at the "FTE rate" associated with their position (typically 0.5). They are counted in Fall, Spring or both depending on their contract. Faculty paid from external sources are assigned an FTE based on their position, not based on funding source. Visiting Faculty was counted in the "Other" portion of the chart.*

CECS (Fall 2014-Spring 2015) Distribution of Credit Hour Delivery (100-600 level) per Tenured and Tenure-Track Faculty



Notes: *Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty that were on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015. (Census for Spring and End of Term for Fall)*

CECS (Fall 2014-Spring 2015) Distribution of Credit Hour Delivery (100-600 level) per Teaching Faculty



Notes: *Data was obtained from ODS HR Schedule Hybrid View and from Academic Affairs Planner Spreadsheet for FY15. Faculty FTE's were counted depending on their % of effort for the year. All faculty that were on sabbatical leave are counted as a full FTE. Run Date: Feb 9, 2015. (Census for Spring and End of Term for Fall)*

CSM Sponsored Research Awards and Expenditures by Department per T/TT for Fiscal Year 15 (FY15)

	FY15 T/TT	FY15 Research Awards	FY15 Awards/ T/TT Faculty	FY15 Expenditures	FY15 Expenditures/ T/TT Faculty
CECS	**70.0**	**11,438,268**	**125,045**	**11,781,071**	**161,636**
College					
Applied Math & Statistics	14.0	545,255	38,947	851,835	60,845
Civil & Environmental Engineering	17.0	5,241,790	308,341	5,172,249	304,250
Electrical Engineering & Computer Science	17.0	1,650,454	97,086	1,490,604	87,683
Mechanical Engineering	22.0	3,978,769	180,853	4,262,865	193,767
EPICS	-	22,000	-	3,517	
CASE	**65.0**	**30,642,235**	**462,322**	**24,482,025**	**361,246**
College		391,328		631,485	-
Chemical & Biological Engineering	16.0	8,230,599	514,412	6,161,594	385,100
Chemistry & Geochemistry	14.0	5,230,242	373,589	3,557,864	254,133
Metallurgical & Materials Engineering	18.0	8,068,021	448,223	7,799,910	433,328
Physics	17.0	8,722,045	513,061	6,331,171	372,422
CERSE	**71.2**	**16,643,788**	**232,890**	**15,376,239**	**222,538**
College				(16,288)	
Economics & Business	11.0	1,080,821	98,256	637,239	57,931
Geology & Geological Engineering	17.0	4,370,863	257,110	3,620,119	212,948
Geophysics	12.0	6,064,931	505,411	4,989,940	415,828
Liberal Arts & International Studies	13.0	352,736	27,134	253,915	19,532
Mining Engineering	8.0	1,495,588	186,949	1,860,156	232,519
Petroleum Engineering	10.2	3,278,849	322,480	4,031,158	396,471
CSM TOTAL	**206.2**	**58,724,291**	**273,419**	**51,639,336**	**248,473**

Note: Data obtained from CSM Office of Research Administration (11/15/15). Fiscal Year 15 Number of Faculty were used in this table to calculate awards and expenditures per T/TT. Fiscal Year 15 (FY15) is defined as July 1, 2014 – June 30, 2015.

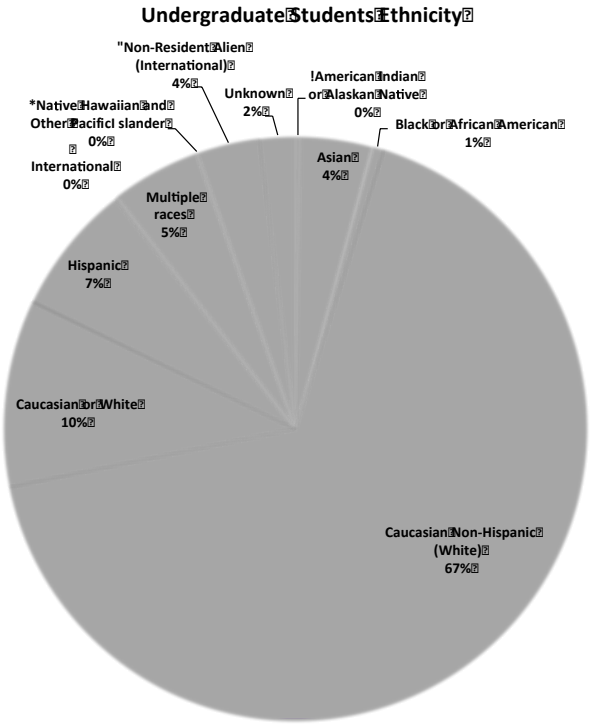
Undergraduate Students Ethnicity (Fall 2015)

DEPARTMENT	American Indian or Alaskan Native	Asian	Black or African American	Caucasian Non-Hispanic (White)	Caucasian or White	Hispanic	International	Multiple races	Native Hawaiian and Other Pacific Islander	Non-Resident Alien (International)	Unknown	Total
CECS	**0.2%**	**4.9%**	**0.6%**	**69.3%**	**9.1%**	**6.6%**	**0.1%**	**5.9%**	**0.3%**	**1.4%**	**1.6%**	**100.0%**
Applied Math & Statistics	0.0%	2.3%	0.0%	74.7%	6.9%	5.7%	0.0%	5.7%	1.1%	0.0%	3.4%	100.0%
Civil & Environmental Engineering	0.3%	5.4%	1.0%	66.4%	10.5%	7.8%	0.3%	6.1%	0.0%	1.7%	0.3%	100.0%
Electrical Engineering & Computer Science	0.2%	7.0%	1.2%	64.5%	11.0%	6.8%	0.0%	6.4%	0.0%	1.6%	1.2%	100.0%
Mechanical Engineering	0.3%	4.7%	0.4%	71.4%	8.1%	6.2%	0.0%	5.2%	0.2%	2.2%	1.3%	100.0%
CASE	**0.1%**	**3.8%**	**0.5%**	**72.3%**	**9.4%**	**7.0%**	**0.1%**	**5.0%**	**0.0%**	**1.3%**	**0.4%**	**100.0%**
Chemical & Biological Engineering	0.0%	5.4%	0.4%	66.8%	9.6%	7.4%	0.3%	7.8%	0.0%	1.9%	0.4%	100.0%
Chemistry & Geochemistry	0.0%	6.5%	0.0%	66.2%	14.3%	9.1%	0.0%	3.9%	0.0%	0.0%	0.0%	100.0%
Metallurgical & Materials Engineering	0.6%	2.9%	0.6%	77.2%	8.2%	4.1%	0.0%	4.1%	0.0%	1.2%	1.2%	100.0%
Physics	0.0%	0.4%	0.9%	79.1%	5.5%	7.7%	0.0%	4.3%	0.0%	2.1%	0.0%	100.0%
CERSE	**0.0%**	**4.9%**	**2.3%**	**59.3%**	**10.4%**	**6.6%**	**0.1%**	**4.8%**	**0.0%**	**11.1%**	**0.5%**	**100.0%**
Economics & Business	0.0%	11.1%	5.6%	55.6%	5.6%	5.6%	0.0%	5.6%	0.0%	11.1%	0.0%	100.0%
Geology & Geological Engineering	0.0%	1.5%	0.8%	64.4%	10.6%	8.3%	0.0%	6.8%	0.0%	7.6%	0.0%	100.0%
Geophysics	0.0%	4.5%	0.6%	61.1%	14.0%	4.5%	0.0%	4.5%	0.0%	10.2%	0.6%	100.0%
Mining Engineering	0.0%	2.0%	2.0%	66.7%	11.1%	7.1%	0.0%	3.0%	0.0%	7.1%	1.0%	100.0%
Petroleum Engineering	0.0%	5.4%	2.6%	48.8%	10.8%	7.5%	0.6%	4.0%	0.0%	19.3%	1.1%	100.0%
Undeclared	0.0%	6.5%	0.8%	73.2%	1.6%	8.9%	0.0%	6.5%	0.0%	2.4%	0.0%	100.0%
TOTAL	**0.1%**	**4.5%**	**1.1%**	**67.0%**	**9.6%**	**6.8%**	**0.1%**	**5.2%**	**0.1%**	**4.6%**	**0.8%**	**100.0%**

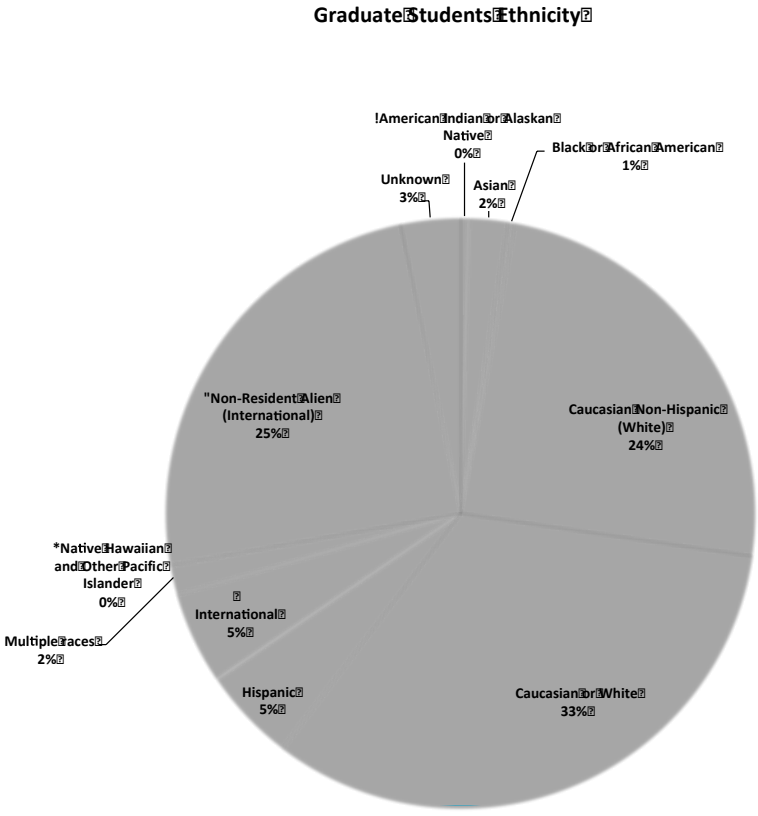
Graduate Students Ethnicity (Fall 2015)

DEPARTMENT	American Indian or Alaskan Native	Asian	Black or African American	Caucasian Non-Hispanic (White)	Caucasian or White	Hispanic	International	Multiple races	Native Hawaiian and Other Pacific Islander	Non-Resident Alien (International)	Unknown	Total
CECS	**0.6%**	**3.3%**	**1.0%**	**26.7%**	**35.5%**	**7.9%**	**1.0%**	**3.9%**	**0.3%**	**17.7%**	**2.0%**	**100.0%**
Applied Math & Statistics	2.6%	0.0%	2.6%	30.8%	51.3%	7.7%	0.0%	2.6%	0.0%	0.0%	2.6%	100.0%
Civil & Environmental Engineering	0.0%	4.4%	0.7%	24.8%	45.3%	5.8%	0.7%	4.4%	0.0%	11.7%	2.2%	100.0%
Electrical Engineering & Computer Science	0.0%	4.0%	0.0%	21.0%	18.0%	9.0%	2.0%	4.0%	1.0%	39.0%	2.0%	100.0%
Mechanical Engineering	0.0%	4.8%	0.7%	30.3%	27.6%	9.0%	1.4%	4.8%	0.0%	20.0%	1.4%	100.0%
CASE	**0.4%**	**1.4%**	**0.2%**	**23.2%**	**39.1%**	**3.9%**	**2.8%**	**2.1%**	**0.0%**	**25.2%**	**1.7%**	**100.0%**
Chemical & Biological Engineering	0.0%	1.3%	0.0%	11.4%	32.9%	0.0%	2.5%	2.5%	0.0%	48.1%	1.3%	100.0%
Chemistry & Geochemistry	1.6%	0.0%	0.0%	19.7%	55.7%	3.3%	1.6%	3.3%	0.0%	14.8%	0.0%	100.0%
Metallurgical & Materials Engineering	0.0%	3.0%	0.7%	28.1%	34.1%	4.4%	4.4%	1.5%	0.0%	22.2%	1.5%	100.0%
Physics	0.0%	1.3%	0.0%	33.8%	33.8%	7.8%	2.6%	1.3%	0.0%	15.6%	3.9%	100.0%
CERSE	**0.2%**	**1.6%**	**0.7%**	**14.2%**	**32.6%**	**6.5%**	**5.1%**	**0.6%**	**0.0%**	**36.8%**	**1.7%**	**100.0%**
Economics & Business	0.0%	2.8%	2.1%	18.6%	35.9%	7.6%	2.8%	0.0%	0.0%	26.9%	3.4%	100.0%
Geology & Geological Engineering	0.0%	1.5%	1.0%	17.6%	52.3%	6.5%	2.0%	1.5%	0.0%	16.6%	1.0%	100.0%
Geophysics	1.1%	2.3%	0.0%	20.7%	18.4%	3.4%	9.2%	2.3%	0.0%	42.5%	0.0%	100.0%
Liberal Arts & International Studies	0.0%	0.0%	0.0%	0.0%	62.5%	12.5%	0.0%	0.0%	0.0%	25.0%	0.0%	100.0%
Mining Engineering	0.0%	1.8%	0.0%	20.0%	14.5%	7.3%	5.5%	0.0%	0.0%	47.3%	3.6%	100.0%
Petroleum Engineering	0.0%	0.9%	0.9%	8.5%	12.3%	1.9%	11.3%	0.0%	0.0%	62.3%	1.9%	**100.0%**
TOTAL	**0.4%**	**2.1%**	**0.6%**	**21.4%**	**35.8%**	**6.1%**	**3.0%**	**2.2%**	**0.1%**	**26.5%**	**1.8%**	**100.0%**

Undergraduate Students' Ethnicity (Fall 2015)



Graduate Students' Ethnicity (Fall 2015)



Strategic Plan and Strategic Scorecard Measures

Colorado School of Mines' Board of Trustees approved the Colorado School of Mines' Strategic Plan 2014-2024 on December 2013. The Plan is included in Appendix A.

Colorado School of Mines' Strategic Scorecard, which measures progress on the strategic plan, was presented to the Colorado School of Mines Board of Trustees in October 2014. These metrics are still under discussion. Some of the 5-Yr and 10-Yr Targets noted as to be determined (TBD) on the basis of further financial analysis. This presentation is included in Appendix B.