

THE DURHAM SCHOOL

OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION

ANNUAL METRICS

Academic Years 2015-2019[‡]



[‡]AY 2020 data included where available





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The Durham School Mission

The Charles W. Durham School of Architectural Engineering and Construction was formed by action of the Board of Regents on December 13, 2003. In the program statement to the Regents, it was indicated that the "objective in consolidating these three closely allied programs is a strong, dynamic unit that will allow the College of Engineering to become a national leader in this field." It was also stated that the new school will establish national standards of excellence by incorporating technologically advanced education and research programs in collaboration with private sector industry leaders.

The mission of The Charles W. Durham School of Architectural Engineering and Construction is to provide the highest quality education for design and building professionals and to promote and advance industrial innovation and standards through research and technology utilization and transfer.





2019-2020 Organizational Chart











Degrees Offered

	Bachelor of Science (B.S.)	Master of Architectural Engineering (M.A.E.)	Master of Science (M.S.)	Doctoral (Ph.D.)
Architectural Engineering (AE) (Omaha Only)	X	X	X	X
Construction Management (CNST) (Omaha & Lincoln)	X			
Construction Engineering (CONE) (Omaha & Lincoln)	X			
Construction Engineering and Management (CEMT) (Omaha & Lincoln)			X	X

Journal Publications/Conference Proceedings

	2014	2015	2016	2017	2018
Journal Publications	44	40	41	30	20
Conference Proceedings	32	41	34	33	36
Total	76	81	75	63	56

All journal publications and conference proceedings are peer-reviewed

Source: Faculty profiles and department records, data may not represent all publications and proceedings



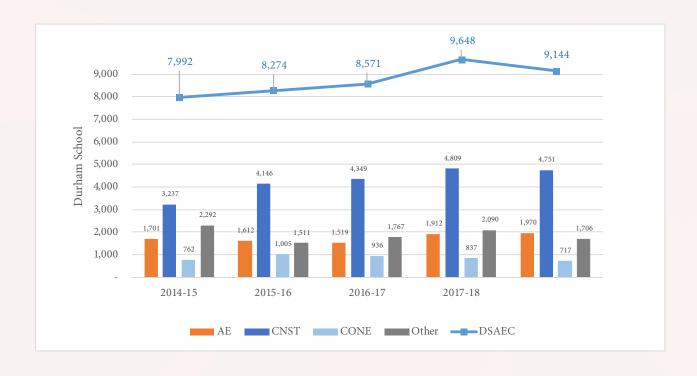


Credit Hours Taught

	AY 2014-15*	AY 2015-16*	AY 2016-17*	AY 2017-18*	AY 2018-19
Durham School					
Architectural Engineering	1,701	1,612	1,519	1,912	1,970
Construction Management	3,237	4,146	4,349	4,809	4,751
Construction Engineering	762	1,005	936	837	717
Other	2,292	1,511	1,767	2,090	1,706
Total	7,992	8,274	8,571	9,648	9,144

Source: College of Engineering

^{*}The credit hours data on the 2014-2018 Annual Metrics report was found to be incomplete, past years have been updated on this report to reflect corrected counts





Research Expenditures

	FY	FY	FY	FY	FY
	2015	2016	2017	2018	2019
Durham School	\$587,426	\$789,091	\$1,092,414	\$825,973	\$891,258
College of Engineering	\$28,391,721	\$29,397,052	\$31,166,595	\$38,974,739	\$42,625,856

Source: College of Engineering, data represents Fiscal Year (FY) July 1 - June 30

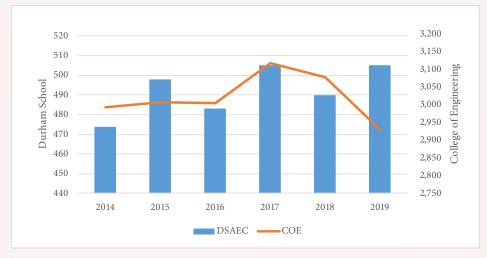


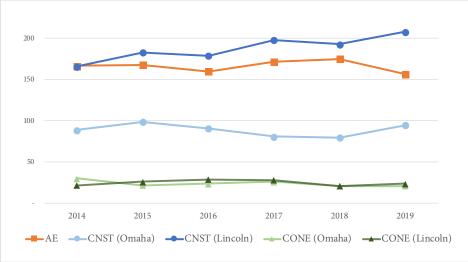




Undergraduate Enrollment

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering	167	168	160	172	175	157
Construction Management (Omaha)	89	99	91	81	80	95
Construction Management (Lincoln)	166	183	179	198	193	208
Construction Engineering (Omaha)	30	22	24	26	21	21
Construction Engineering (Lincoln)	22	26	29	28	21	24
Durham School	474	498	483	505	490	505
College of Engineering	2,993	3,008	3,066	3,117	3,077	2,929







Graduate Enrollment

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering - M.A.E.	38	33	24	28	36	38
Architectural Engineering - M.S.	5	5	7	3	9	7
Architectural Engineering - Ph.D.	16	17	18	19	13	14
Construction - M.S.	4	0	1			
Construction - M.S. (CEMT)		2	1	6	8	6
Construction - Ph.D.	21	17	12	10	6	3
Construction - Ph.D. (CEMT)		7	9	8	3	7
Durham School	86	85	72	74	75	75
College of Engineering	547	553	494	497	474	475







Ethnicity Undergraduate

Durham School	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
African American/Black	6	11	14	13	7	7
Asian	3	5	4	7	14	16
Hispanic	22	21	23	29	38	42
Native American	1	1	0	0	0	0
Other (inc. Caucasian)	442	460	442	456	490	440

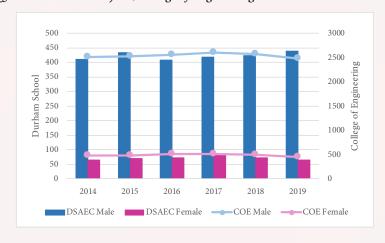
College of Engineering	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
African American/Black	69	78	78	71	55	53
Asian	76	96	92	103	108	97
Hispanic	114	125	143	168	210	215
Native American	3	3	2	4	5	4
Other (inc. Caucasian)	2,731	2,706	2,751	2,771	3,077	2,560





Gender Undergraduate

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering						
Male	121	117	107	115	129	113
Female	46	51	53	57	53	44
Construction Management (Omaha)						
Male	81	91	82	69	72	89
Female	8	8	9	12	8	6
Construction Management (Lincoln)						
Male	160	177	173	189	184	197
Female	6	6	6	9	9	11
Construction Engineering (Omaha)						
Male	27	24	21	21	20	20
Female	3	2	3	5	1	1
Construction Engineering (Lincoln)						
Male	21	24	26	26	19	21
Female	1	2	3	2	2	3
Durham School						
Male	410	433	409	420	424	440
Female	64	69	74	85	73	65
College of Engineering						
Male	2,507	2,529	2,554	2,601	2,579	2,479
Female	486	479	512	516	498	450





National Standardized Exams

Fundamentals of Engineering (FE) Exam - Passing Percentage

	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019
Architectural Engineering	N/D	N/D	N/D	N/D	100%	50%	91%
National Average (ABET)	N/D	N/D	N/D	N/D	100%	25%	91%
Construction Engineering	50%	N/A	57%	100%	N/A	60%	20%
National Average (ABET)	N/D	N/A	76%	62%	N/A	63%	65%

American Institute of Constructors (AIC) Level 1 Exam – Associate Constructor – Passing Percentage

	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019
Construction Management	56%	65%	90%	77%	79%	60%	63%
National Average	51%	67%	70%	79%	59%	55%	62%

Source: Official FE and AIC exam reports

N/D -- Official data unavailable

N/A -- No exams taken

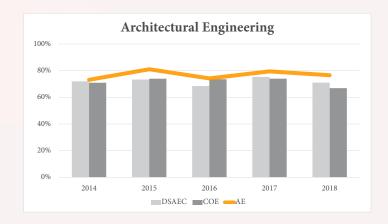


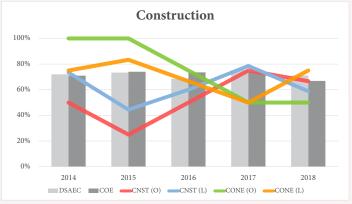


Retention Rates

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering	73.2%	81.1%	74.2%	79.5%	76.6%
Construction Management (Omaha)	50.0%	25.0%	50.0%	75.0%	66.7%
Construction Management (Lincoln)	73.3%	44.4%	60.0%	78.6%	58.8%
Construction Engineering (Omaha)	100%	100%	N/A	50.0%	50.0%
Construction Engineering (Lincoln)	75.0%	83.3%	66.7%	50.0%	75.0%
Durham School	72.0%	73.3%	68.5%	75.4%	71.1%
College of Engineering	71.0%	74.0%	73.6%	74.0%	66.9%

Source: College of Engineering; based on first-time, first-year undergraduate students who continue to the next year









In-State / Out-of-State Students

First-Time Freshman

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering						
In-State	30	27	26	37	40	39
Out-of-State	4	5	2	1	5	2
International	3	2	2	1	1	0
Unknown/No Data	5	3	1	0	0	0
Construction Management						
In-State	14	5	12	13	18	27
Out-of-State	1	4	2	5	4	4
International	0	0	1	0	1	1
Unknown/No Data	0	0	0	0	0	0
Construction Engineering						
In-State	9	9	4	4	4	14
Out-of-State	1	0	2	3	2	1
International	1	1	0	1	0	0
Unknown/No Data	0	0	0	0	0	0
Combined						
In-State	53	41	42	54	62	80
Out-of-State	6	9	6	9	11	7
International	4	3	3	2	2	1
Unknown/No Data	5	3	1	0	0	0



Source: College of Engineering; based on first-time, first-year undergraduate students



ACT ScoresFirst-Time Freshman

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering	28.4	28.9	27.8	29.1	28.5	29.1
Construction Management	26.5	26.0	24.9	25.1	25.6	25.5
Construction Engineering	27.4	27.1	27.6	27.1	27.0	28.0
Durham School	27.6	28.1	26.8	27.8	27.5	27.7
University of Nebraska - Lincoln	25.4	25.2	25.2	25.3	25.4	25.5





Undergraduate ScholarshipsAwarded by The Durham School

	AY 2016-17		AY 2017-18		AY 2018-19		AY 2019-20	
	Total #	Total \$	Total #	Total \$	Total #	Total \$	Total #	Total \$
Architectural Engineering	27	\$81,760	32	\$133,750	37	\$170,500	31	\$176,500
Construction (Omaha)	27	\$74,760	15	\$38,600	12	\$18,800	18	\$58,500
Construction (Lincoln)	45	\$86,735	44	\$91,300	51	\$92,050	60	\$109,250
Total	99	\$243,255	91	\$263,650	100	\$281,350	109	\$344,250

Source: Durham School scholarship records; includes annual scholarships and renewable scholarships combined





Student Competitions

Academic Years 2017-2019

2017 American Society of Heating and Air-Conditioning Engineers (ASHRAE) Design Calculations

3rd Place System Selection

2017 Architectural Engineering Institute (AEI) Student Design Competition

1st Place Electrical (Team 11)

2nd Place Integration (Team 11), Structures (Team 13), Mechanical (Team 11), Electrical (Team 13),

Construction (Team 13)

Innovation Resiliency & Security (Team 11), High Performance & WELL Buildings (Team 11)

2017 Associated Schools of Construction (ASC) Region 4 Competition

1st Place Heavy Highway 5th Place Commercial

2018 American Society of Heating and Air-Conditioning Engineers (ASHRAE) Design Competition

1st Place HVAC Design Calculations

2018 Associated Schools of Construction (ASC) Region 6/7 Competition

Honorable Mention IPD Category

2018 Architectural Engineering Institute (AEI) Student Design Competition

2nd Place Structural, Mechanical

2018 Associated Schools of Construction (ASC) Region 4 Competition

1st Place Heavy Highway 2nd Place Commercial

2018 National Council of Examiners of Engineering and Surveying (NCEES)

Engineering Award for Connecting Professional Practice and Education

Prize - \$10,000

2019 American Society of Heating and Air-Conditioning Engineers (ASHRAE) Design Competition

st Place System Selection

2019 Appalachia Service Project (ASP) Race to Build

1st Place

2019 Architectural Engineering Institute (AEI) Student Design Competition

2nd Place Structural

Innovation Acoustics; Wood, Timber, Engineered Wood

2019 Associated Schools of Construction (ASC) Region 4 Competition

1st Place Commercial 2, Heavy Highway 2nd Place Commercial 1, Design-Build

2019 National Council of Examiners of Engineering and Surveying (NCEES)

Engineering Award for Connecting Professional Practice and Education

Grand Prize - \$25,000

Illuminating Engineering Society (IES) Howard Brandston Student Lighting Design Education Grant

Durham School students received top honors in years: 2010, 2011, 2013, 2014, 2015, 2016,

2018, 2019

Additionally, students received honorable mention awards in years: 2011, 2014, 2016







Durham School Career Fair Statistics

2015	2016	2017	2018	2019
23	27	29	40	44
113	204	208	238	234
2015	2016	2017	2018	2019
76	81	81	100	110
277	267	318	401	358
2015	2016	2017	2018	2019
19	27	31	29	37
200	230	249	260	343
	23 113 2015 76 277 2015	23 27 113 204 2015 2016 76 81 277 267 2015 2016 19 27	23 27 29 113 204 208 2015 2016 2017 76 81 81 277 267 318 2015 2016 2017 19 27 31	23 27 29 40 113 204 208 238 2015 2016 2017 2018 76 81 81 100 277 267 318 401 2015 2016 2017 2018 19 27 31 29

Source: College of Engineering Career Services





Degrees Conferred

Undergraduate Degrees	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19
Architectural Engineering	26	23	26	35	30
Construction Management (Omaha)	21	27	21	18	26
Construction Management (Lincoln)	28	45	26	60	48
Construction Engineering (Omaha)	7	4	5	3	2
Construction Engineering (Lincoln)	2	2	2	6	6
Durham School	84	101	80	122	112
College of Engineering	512	531	577	630	694

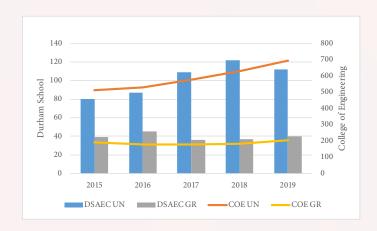
	AY	AY	AY	AY	AY
Graduate Degrees	2014-15	2015-16	2016-17	2017-18	2018-19
Architectural Engineering - M.A.E.	26	29	17	24	26
Architectural Engineering - M.S.	2	1	9	3	2
Architectural Engineering - Ph.D.	4	5	2	3	4
Construction - M.S.	1				
Construction - M.S. (CEMT)	3	6	5	4	6
Construction - Ph.D.	3	4	1	3	2
Construction - Ph.D. (CEMT)			2	0	0
Durham School	39	45	24	37	40
College of Engineering	192	179	178	181	205

Source: College of Engineering

Alumni To-Date

Architectural Engineering	540+
Construction	3020+

Source: Durham School Alumni databases





Construction Student Placement

\mathbf{AY}	AY	AY	AY	AY
2013-14	2014-15	2015-16	2016-17	2017-18
				,
84.8%	86.1%	69.4%	83.1%	72.3%
N/A	8.3%	0.9%	3.1%	1.2%
\$52,288	\$51,281	\$54,375	\$54,387	\$57,841
N/A	\$49,166	\$58,250	\$56,100	\$59,500
	2013-14 84.8% N/A \$52,288	2013-14 2014-15 84.8% 86.1% N/A 8.3% \$52,288 \$51,281	2013-14 2014-15 2015-16 84.8% 86.1% 69.4% N/A 8.3% 0.9% \$52,288 \$51,281 \$54,375	2013-14 2014-15 2015-16 2016-17 84.8% 86.1% 69.4% 83.1% N/A 8.3% 0.9% 3.1% \$52,288 \$51,281 \$54,375 \$54,387

Source: College of Engineering Career Services

Academic Appointments - Graduate Students (Ph.D.)

2015	Krishna Kisi	Missouri Western State University
2015	Nirajan Mani	Fitchburg State University
2015	Seyed Ehsan Mousavi Rizi	Clemson University
2016	Saeed Rokooei	University of Mississippi
2017	Mohamed Amar	University of Nebraska-Lincoln
2017	Ri Na	University of Delaware
2018	Arefeh Mohammadi	Clark College
2018	Hamed Nabizadeh Rafsanjani	University of Georgia
2018	Kanghyeok Yang	Chonnam National University
2019	Mahmoud Habibnezhad	Penn State University
2019	Zahra Jabbarani Torghabeh	Mississippi State University

Industry Placement - Graduate Students (Ph.D.)

2016	Micheal Asaad	DLR Group
2016	Bradley Cory	Weatherproof Roofing & Exteriors
2016	Ayoub Hazrati	Vanguard Funds
2017	Sherif Gawdat	Dar Al Handasah
2017	Raed Tawadrous	e-Construct, Inc.

Source: Durham School Construction Alumni Database







Architectural Engineering Student Placement

Master of Architectural Engineering (M.A.E.)	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19
Alumni Records/Total Graduates	26/26	27/29	17/17	24/24	22/26
Employed in AE Industry ¹	100%	100%	100%	100%	86%
Employed in Non-AE Industry ¹	0%	0%	0%	0%	9%
Additional Education ¹	0%	0%	0%	0%	5%
Average Starting Salary [‡]	\$56,734	\$59,917	\$58,818	\$59,970	\$58,409

M.A.E. Sample Employer List

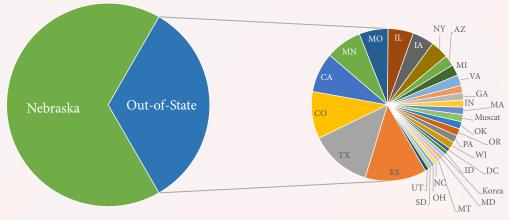
Affiliated Engineers, Inc.
Alvine Engineering
Bes-Tech, Inc.
Brack & Associates
BSE Structural Engineers, LLC
Burns & McDonnell
Buro Happold Engineering
DLR Group
Ebmeier Engineering
Engineering Technologies, Inc.
Ezenics Inc.
Farris Engineering
HDR Architecture
HDR Engineering
Henderson Engineers, Inc.

HGA Architects & Engineers
JEI Structural Engineering
Leo A Daly
Morrissey Engineering
Olsson Associates
Omaha Public Power District
Schemmer Associates
Schmidt & Stacy
Schnackel Engineers
SmithGroup JJR
Specialized Engineering Solutions
Thompson, Dreessen & Dorner
Threshold Acoustics
U.S. Army Corps of Engineers
Wilson & Company

M.A.E. Employment First Destinations



Nebraska AE Graduate Location



Source: Durham School Architectural Engineering Alumni Database

1) Of known records

‡ AY15, AY16, AY17 – Source: College of Engineering Career Services AY18, AY19 – Source: Durham School Architectural Engineering Alumni Database



Architectural Engineering Student Placement

Academic Appointments - Graduate Students (Ph.D.)

The state of the s			
2015	Denchai Woradech- Jumroen	Lecturer at Sripatum University Rat Burana, Bangkok, Thailand	
2016	Eric Garcia	North Dakota State University	
2016	Joonhee Lee	Concordia University	
2017	ShiHan Deng	Kunming University of Science and Technology	
2018	Jonathan Weber	University of Nebraska-Lincoln	
2019	Bora Pulatsu	University of Nebraska-Lincoln	

Industry Placement - Graduate Students (Ph.D.)

2015	Hyun Hong	Threshold Acoustics
2015	Yulia Tyukhova	Acuity Brands Lighting
2016	Matthew Blevins	U.S. Army Engineer Research and Development Center (ERDC), Champaign, Ill.
2016	Ariel Kousgaard	Wiss, Janney, Elstner Associates, Inc., Chicago
2018	Alireza Behfar	Paul Mueller Company
2018	Jay Bliefnick	Acentec
2018	Mehdi Mehrabi	Paradigm Consulting Engineers
2018	Sungmin Yoon	Incheon National University

Source: Durham School Architectural Engineering Alumni Database





Advisory Boards

Durham School Advisory Board

Doug Alvine Alvine and Associates, Inc. Mike Ayars Ayars & Ayars, Inc.

Lynne D. Boyer

Guenther Dziuvenis **AVI Systems**

Doug Glaser | Kiewit Infrastructure Group

Mary D. Lundgren

Nancy Melby Leo A Daly Mike Moran HDR, Inc.

> Ken West DLR Group (retired)

Architectural Engineering Industry Advisory Committee (AEIAC)

Darren Dageforde University of Nebraska Medical Center Stephanie Guy Alvine and Associates, Inc.

Amy Hackney Simpson Gumpertz & Heger, Inc. Eric Kamin DLR Group

SmithGroup JJR Rodrigo Manriquez Rodd Merchant | IE Dunn Construction Erik Miller-Klein | A3 Acoustics, LLP

Andy Yosten Mike Moran | HDR, Inc.

George Morrissey Morrissey Engineering

Ryan Curtis Leo A Daly

Mark Sarkisian Skidmore, Owings & Merrill, LLP

Chrysanthi Stockwell Hammel, Green and Abrahamson, Inc.

> Steve Yanke Affiliated Engineers, Inc.

HDR,Inc.

Construction Industry Advisory Council (CIAC)

Ionathon Adam Bauer Underground Mark Arnold **GH** Phipps

Nate Barry Metropolitan Community College

Mark Berner MCL Construction

Ryan Burbach New Generation Construction Brent Burger Black & Veatch Construction

Bryan Bush City Glass Company Ted Butler **NEBCO - Constructors**

Miranda Christiansen Hensel Phelps

> Pat Cuddigan **New Street Properties** Joe Delgado TCW Construction, Inc.

Jenna Donley HDR, Inc

Paul Dudzinski | Mortenson/McCarthy Joint Venture

Jose Figueroa Interstates Branch Foote Swinerton

B.J. Gehrki | The Graham Group Doug Glaser Kiewit Infrastructure Group

Chris Grojean Hawkins Construction Company

Chris Harnly **Lund-Ross Constructors** Joey Hausmann Hausmann Construction Ted Hoog **Brinkmann Constructors** Renee Jacobs Johnson Controls, Inc.

Kelsey Johnson MCA Omaha

Lueder Construction Co. Greg Key

Chris Kingery Kingery Construction Company

JE Dunn Construction Mark Menousek

Tim Meyer **Boyd Jones** Mike Naccarato SGH/Redglaze Holding, Inc.

Mark Nienhueser **Tetrad Property Group** Travis Noble Mortenson Construction Mike Ostlund | Kiewit Infrastructure Group

Brian Penner Hensel Phelps

Jean Petsch AGC Nebraska Building Chapter

Kama Pfister | HDR, Inc.

Gabe Ronk | MMC Contractors **Turner Construction** Erin Royal

Ryan Sawall McCarthy

Matt Schendt Hausmann Construction Jeff Schomberg Johnson Controls, Inc.

Matt Schulte Whiting-Turner Miller Electric Jason Tagge

Ryan Watzke JE Dunn Construction Chad Westphalen The Waldinger Corporation AGC Nebraska Chapter Katie Wilson

Todd Wimmer Union Pacific Robert Wittler Ayars & Ayars, Inc.

Don Wrieth Kiewit Building Group (retired)