



**THE DURHAM SCHOOL
OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION**

ANNUAL METRICS

**Academic Years
2016-2020[‡]**



[‡]AY 2021 data included where available



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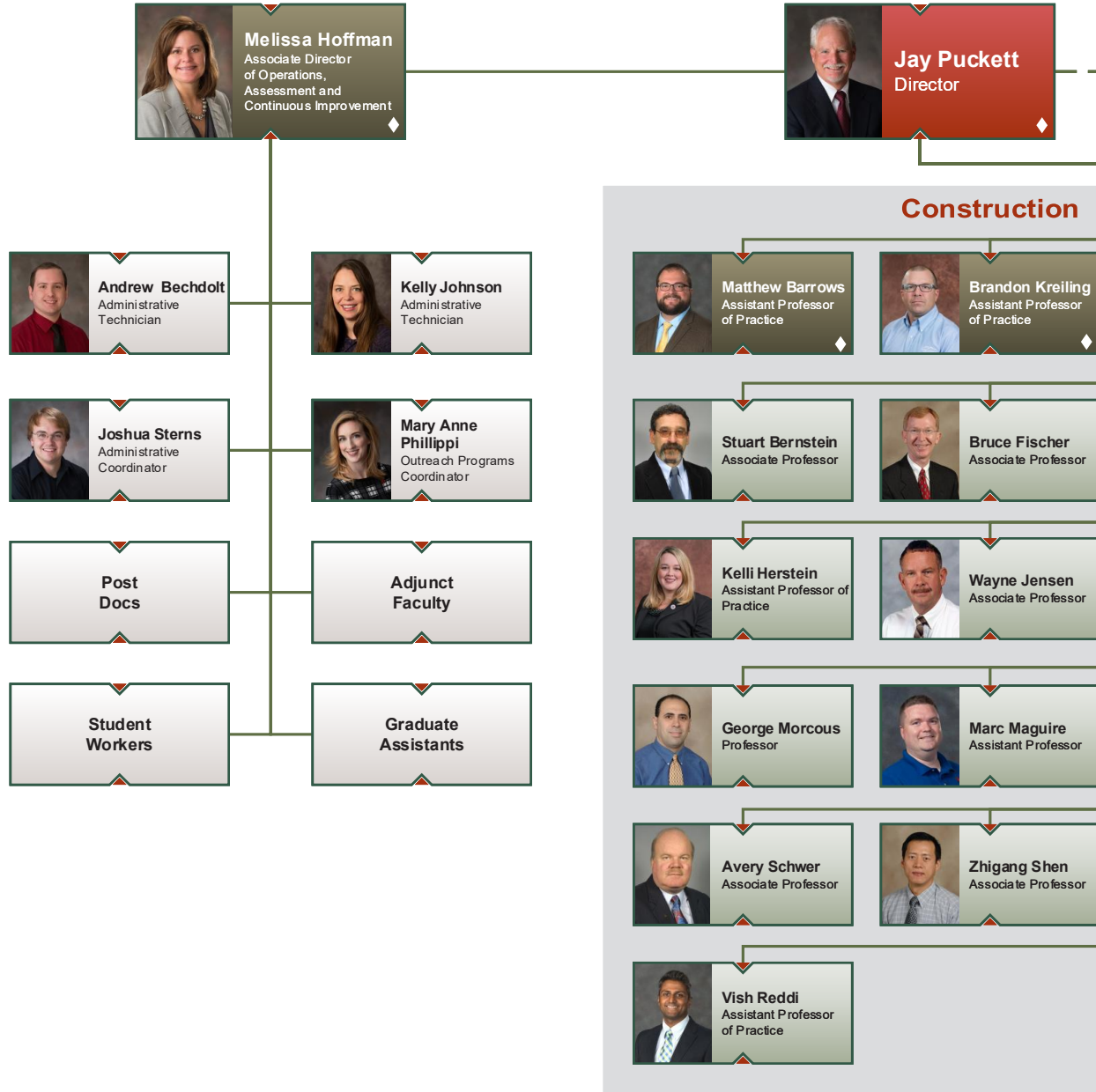
The Durham School Mission

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.



2020-2021 Organizational Chart



◇ Executive Council Member



**THE DURHAM SCHOOL
OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION**

Learn Today | Build Tomorrow

Durham School
Advisory Board

Architectural Engineering
Industry Advisory
Committee (AEIAC)

Construction Industry
Advisory Council
(CIAC)


Architectural Engineering



Phil Barutha
Assistant Professor



Ece Erdogan
Associate Director for
Architectural Engineering,
Professor
Structures



Clarence Waters
Industrial Liaison,
Professor
Electrical & Lighting



Moe Alahmad
Associate Professor
Electrical & Lighting



Kevin Grosskopf
Professor



Fadi Alsalem
Assistant Professor
Mechanical Systems




**Michelle
Eble-Hankins**
Assistant Professor
of Practice
Electrical & Lighting



**Iason
Konstantzos**
Assistant Professor
Mechanical Systems



Kyungki Kim
Assistant Professor



Jennifer Lather
Assistant Professor



Josephine Lau
Associate Professor
Mechanical Systems



Haorong Li
Associate Professor
Mechanical Systems



Tony Roebuck
Assistant Professor
of Practice




Erica Ryherd
Associate Professor
Acoustics



Dale Tiller
Associate Professor
Electrical & Lighting



Lily Wang
Professor
Acoustics



Terry Stentz
Associate Professor




David Yuill
Assistant Professor
Mechanical Systems

Industry Fellows



Patrick Cuddigan
Lecturer



Todd Feldman
Lecturer



**Rodrigo
Manriquez**
Lecturer



Doug Nelson
Lecturer



Lauren Ronsse
Lecturer



Todd Shackelford
Lecturer

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) <i>(Omaha Only)</i>	X	X	X	X
Construction Management (CNST) <i>(Omaha & Lincoln)</i>	X			
Construction Engineering (CONE) <i>(Omaha & Lincoln)</i>	X			
Construction Engineering and Management (CEMT) <i>(Omaha & Lincoln)</i>			X	X

Journal Publications/Conference Proceedings

	2015	2016	2017	2018	2019
Journal Publications	40	41	30	20	46
Conference Proceedings	41	34	33	36	46
Total	81	75	63	56	92

All journal publications and conference proceedings are peer-reviewed

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

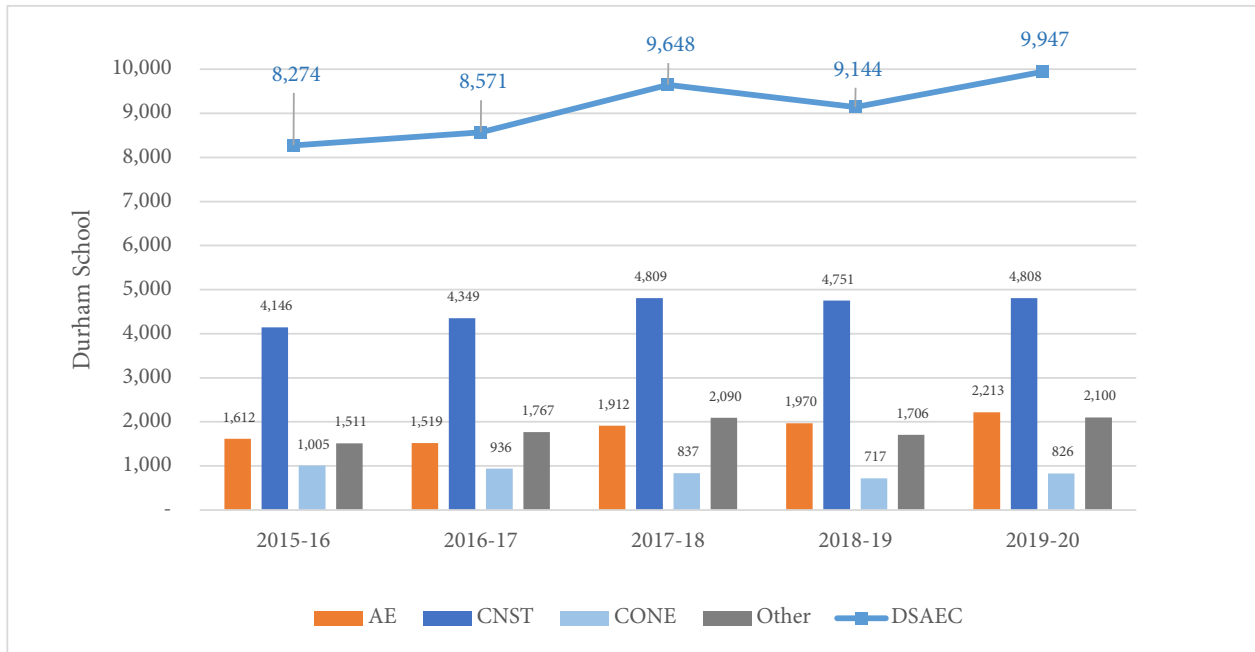




Credit Hours Taught

	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20
Durham School					
Architectural Engineering	1,612	1,519	1,912	1,970	2,213
Construction Management	4,146	4,349	4,809	4,751	4,808
Construction Engineering	1,005	936	837	717	826
Other	1,511	1,767	2,090	1,706	2,100
Total	8,274	8,571	9,648	9,144	9,947

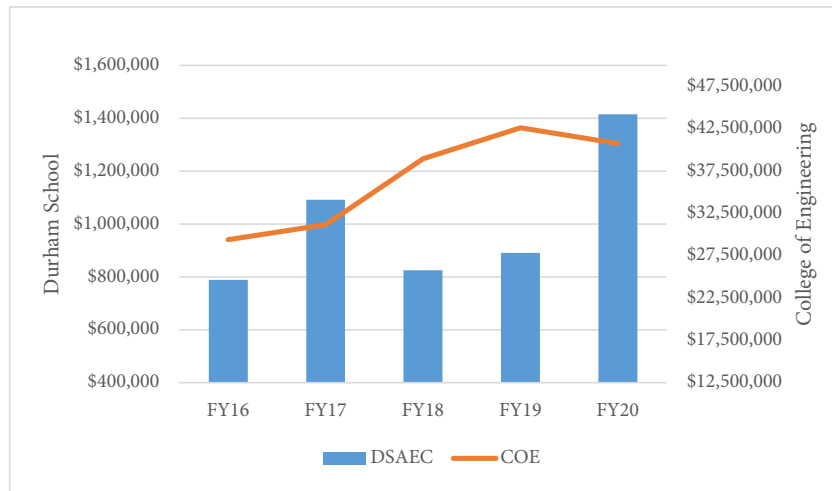
Source: College of Engineering



Research Expenditures

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Durham School	\$789,091	\$1,092,414	\$825,973	\$891,258	\$1,414,984
College of Engineering	\$29,397,052	\$31,166,595	\$38,974,739	\$42,625,856	\$40,773,628

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

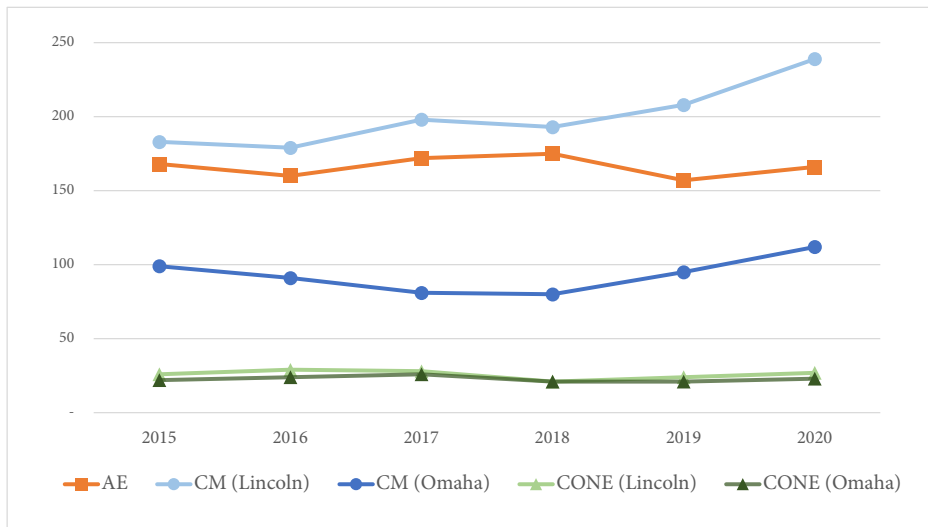
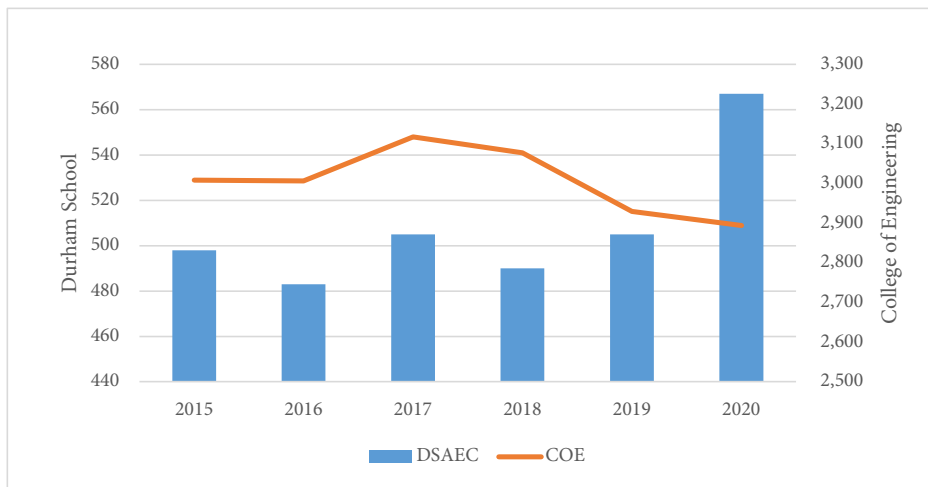




Undergraduate Enrollment

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering	168	160	172	175	157	166
Construction Management (Lincoln)	183	179	198	193	208	239
Construction Management (Omaha)	99	91	81	80	95	112
Construction Engineering (Lincoln)	26	29	28	21	24	27
Construction Engineering (Omaha)	22	24	26	21	21	23
Durham School	498	483	505	490	505	567
College of Engineering	3,008	3,066	3,117	3,077	2,929	2,894

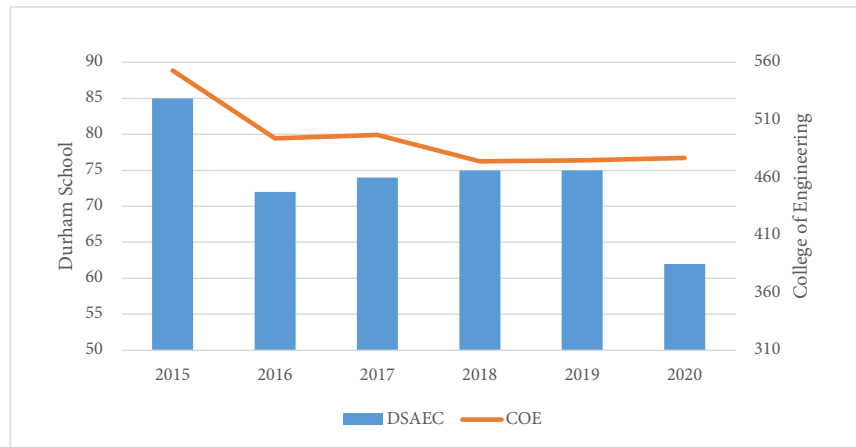
Source: College of Engineering



Graduate Enrollment

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering – M.A.E.	33	24	28	36	38	24
Architectural Engineering – M.S.	5	7	3	9	7	1
Architectural Engineering – Ph.D.	17	18	19	13	14	18
Construction – Graduate Certificate						2
Construction – M.S.	2	2	6	8	6	9
Construction – Ph.D.	24	21	18	9	10	8
Durham School	81	72	74	75	75	62
College of Engineering	553	494	497	474	475	477

Source: College of Engineering



Ethnicity Undergraduate

Durham School	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
African American/Black	11	14	13	7	7	8
Asian	5	4	7	14	16	16
Hispanic	21	23	29	38	42	54
Native American	1	0	0	0	0	0
Other (inc. Caucasian)	460	442	456	490	440	489

College of Engineering	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
African American/Black	78	78	71	55	53	59
Asian	96	92	103	108	97	111
Hispanic	125	143	168	210	215	237
Native American	3	2	4	5	4	3
Other (inc. Caucasian)	2,706	2,751	2,771	3,077	2,560	2,484

Source: Institutional Effectiveness and Analytics; College of Engineering



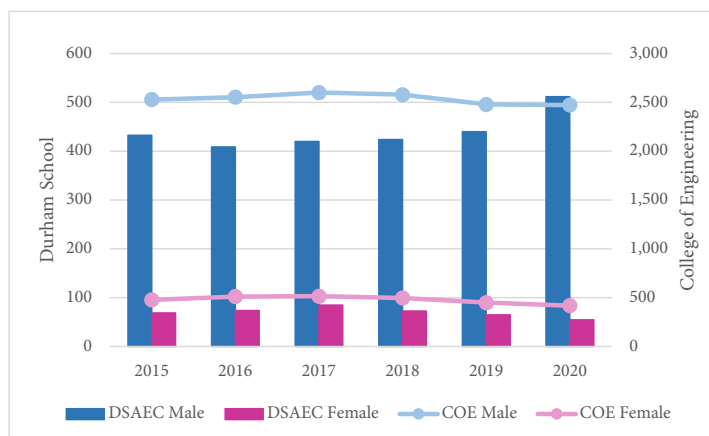


Gender Undergraduate

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering						
Male	117	107	115	129	113	128
Female	51	53	57	53	44	38
Construction Management (Lincoln)						
Male	177	173	189	184	197	229
Female	6	6	9	9	11	10
Construction Management (Omaha)						
Male	91	82	69	72	89	106
Female	8	9	12	8	6	6
Construction Engineering (Lincoln)						
Male	24	26	26	19	21	26
Female	2	3	2	2	3	1
Construction Engineering (Omaha)						
Male	24	21	21	20	20	23
Female	2	3	5	1	1	0

Durham School						
Male	433	409	420	424	440	512
Female	69	74	85	73	65	55
College of Engineering						
Male	2,529	2,554	2,601	2,579	2,479	2,474
Female	479	512	516	498	450	420

Source: Institutional Effectiveness and Analytics; College of Engineering



National Standardized Exams

Fundamentals of Engineering (FE) Exam – Passing Percentage

	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
Architectural Engineering	N/D	N/D	100%	50%	91%	78%	81%
National Average (ABET)	N/D	N/D	100%	25%	91%	79%	80%
Construction Engineering	57%	100%	N/A	60%	20%	0%	N/A
National Average (ABET)	76%	62%	N/A	63%	65%	56%	N/A

Source: Official FE Exam Results

N/D -- Official data unavailable

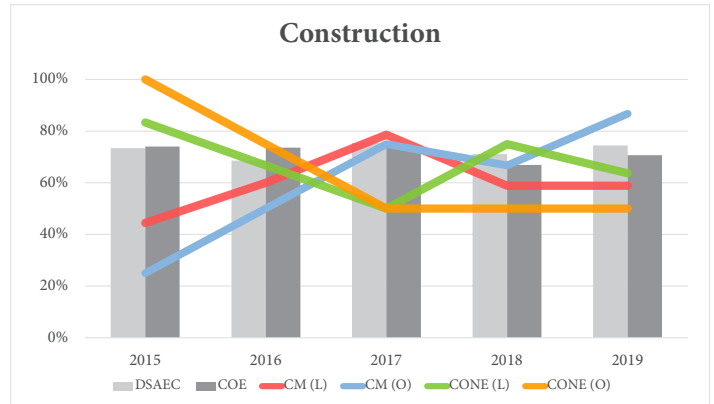
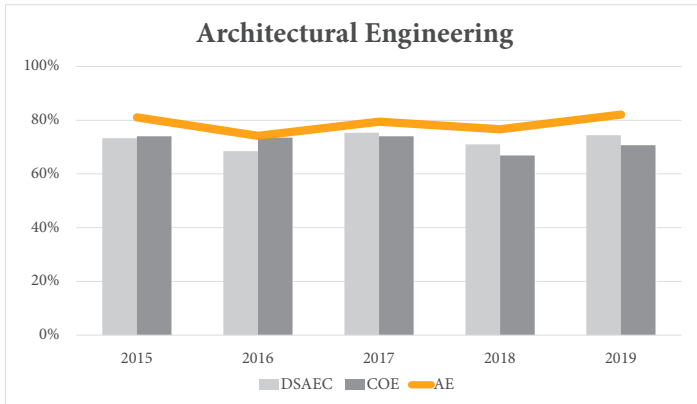
N/A -- No exams taken



Retention Rates

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Architectural Engineering	81.1%	74.2%	79.5%	76.6%	82.1%
Construction Management (Lincoln)	44.4%	60.0%	78.6%	58.8%	58.8%
Construction Management (Omaha)	25.0%	50.0%	75.0%	66.7%	86.7%
Construction Engineering (Lincoln)	83.3%	66.7%	50.0%	75.0%	63.6%
Construction Engineering (Omaha)	100.0%	75.0%	50.0%	50.0%	50.0%
Durham School	73.3%	68.5%	75.4%	71.1%	74.4%
College of Engineering	74.0%	73.6%	74.0%	66.9%	70.7%

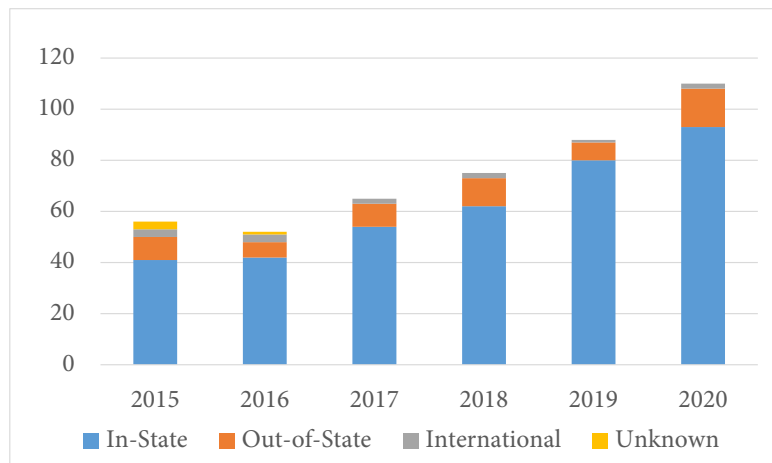
Source: College of Engineering; based on first-time, first-year undergraduate students who continue to the next year





In-State / Out-of-State Students First-Time Freshman

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering						
In-State	27	26	37	40	39	42
Out-of-State	5	2	1	5	2	2
International	2	2	1	1	0	1
Unknown/No Data	3	1	0	0	0	0
Construction Management						
In-State	5	12	13	18	27	40
Out-of-State	4	2	5	4	4	10
International	0	1	0	1	1	1
Unknown/No Data	0	0	0	0	0	0
Construction Engineering						
In-State	9	4	4	4	14	11
Out-of-State	0	2	3	2	1	3
International	1	0	1	0	0	0
Unknown/No Data	0	0	0	0	0	0
Combined						
In-State	41	42	54	62	80	93
Out-of-State	9	6	9	11	7	15
International	3	3	2	2	1	2
Unknown/No Data	3	1	0	0	0	0

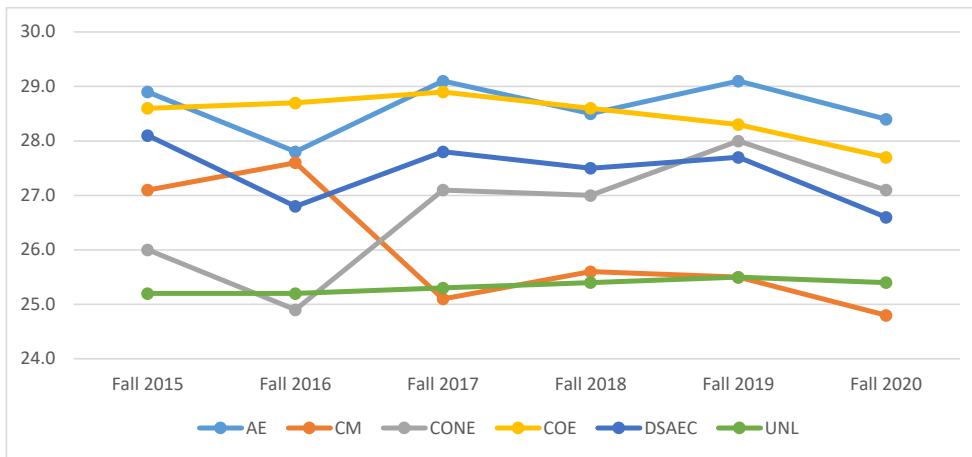


Source: College of Engineering;
based on first-time, first-year
undergraduate students

ACT Scores First-Time Freshman

	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering	28.9	27.8	29.1	28.5	29.1	28.4
Construction Management	27.1	27.6	25.1	25.6	25.5	24.8
Construction Engineering	26.0	24.9	27.1	27.0	28.0	27.1
Durham School	28.1	26.8	27.8	27.5	27.7	26.6
College of Engineering	28.6	28.7	28.9	28.6	28.3	27.7
University of Nebraska - Lincoln	25.2	25.2	25.3	25.4	25.5	25.4

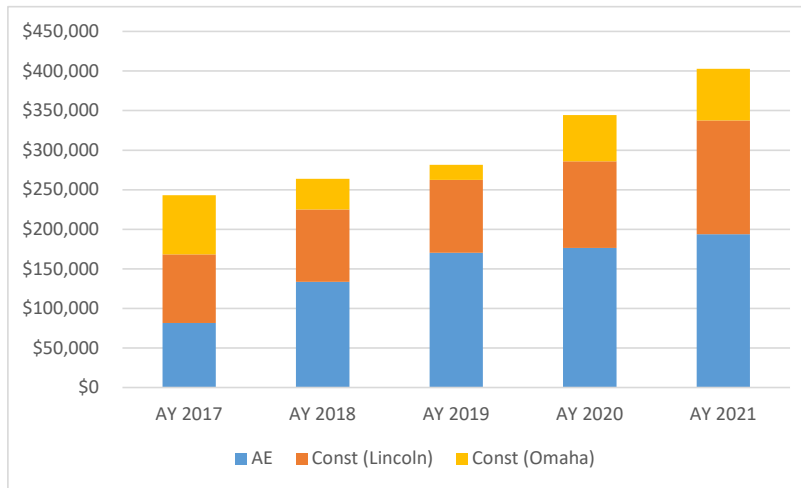
Source: Institutional Effectiveness and Analytics; College of Engineering



Undergraduate Scholarships Awarded by The Durham School

	AY 2017	AY 2018	AY 2019	AY 2020	AY 2021
Architectural Engineering	\$81,760	\$133,750	\$170,500	\$176,500	\$193,931
Construction (Lincoln)	\$86,735	\$91,300	\$92,050	\$109,250	\$143,510
Construction (Omaha)	\$74,760	\$38,600	\$18,800	\$58,500	\$65,365
Total	\$243,255	\$263,650	\$281,350	\$344,250	\$402,806

Source: Durham School scholarship records; includes Durham School annual and renewable scholarships and Construction Industry Advisory Council (CIAC) annual scholarships



Recent Student Competitions

Academic Years 2019-2020

- 2019 **American Society of Heating and Air-Conditioning Engineers (ASHRAE) Design Competition**
1st 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 **Associated Schools of Construction (ASC) Region 8 Competition – Manchester, UK**
2nd Place Quantity Surveying/Construction Management
- 2019 **National Council of Examiners of Engineering and Surveying (NCEES)**
Engineering Award for Connecting Professional Practice and Education
Grand Prize - \$25,000
- 2020 **American Society of Heating and Air-Conditioning Engineers (ASHRAE) Design Competition**
1st Place System Selection
- 2020 **Architectural Engineering Institute (AEI) Student Design Competition**
1st Place Building Integration
2nd Place Structural
Innovation Building Envelope
- 2020 **Associated Schools of Construction (ASC) Region 4 Competition**
3rd Place Heavy Civil



2019 ASC Region 8 Competition

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

Team Member and Mentors

 Ashley Everitt, EIT <small>4th Year Architectural Engineering Student Mechanical Emphasis aweveritt@uncm.edu</small>	 John Kramer, EIT <small>4th Year Architectural Engineering Student Acoustical Emphasis jkramer@uncm.edu</small>	 Jessica Lee, EIT <small>4th Year Architectural Engineering Student Mechanical Emphasis jlee@uncm.edu</small>	 Mitchael Sieh, EIT <small>4th Year Architectural Engineering Student Mechanical Emphasis msieh@uncm.edu</small>
 David Yull, PhD, PE <small>Faculty Member</small>	 Joe Hazel, PE, LEED AP <small>Industry Mentor</small>		

2020 ASHRAE Design Competition

 Ali Al Lawati	 Nate Schmidt	 Nicole Aschoff	 Meradith Butler	STRUCTURAL ELECTRICAL MECHANICAL
 Noor Albahrani	 Adam Hansen	 Dalton Rabe	 Ben Stodola	
 Jenny Solheim	 Nate German			

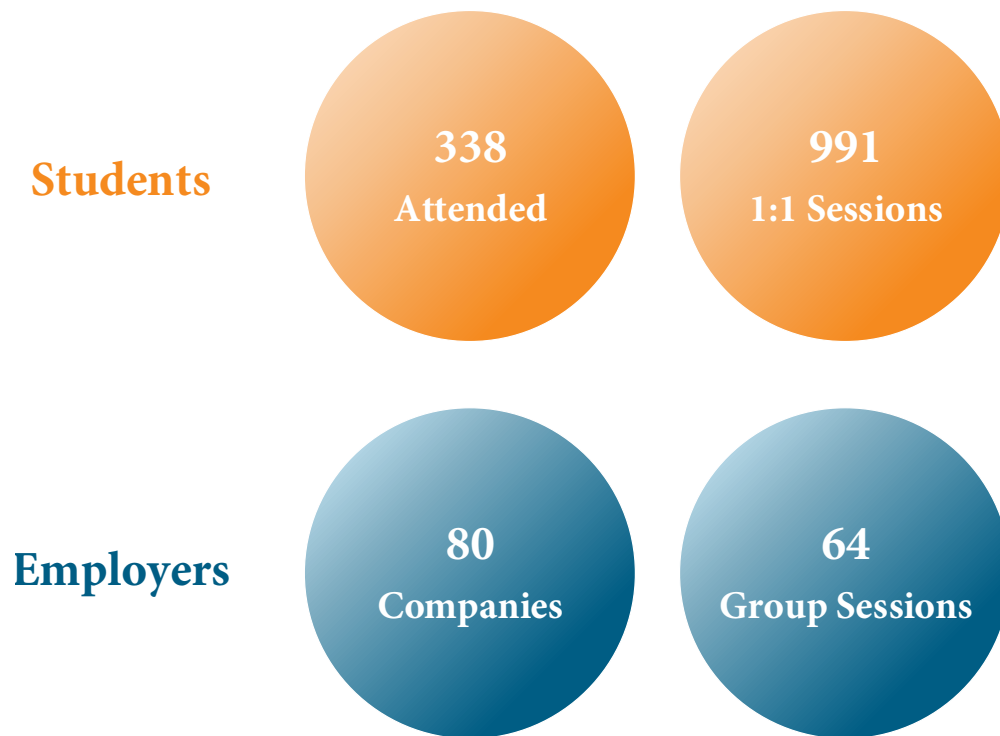
2020 AEI Student Design Competition

Durham School Career Fair Statistics

Day 1 - Internship Presentations	2015	2016	2017	2018	2019
Student Presentations	23	27	29	40	44
Attendance	113	204	208	238	234
Day 2 - Career Fair	2015	2016	2017	2018	2019
Registered Employers	76	81	81	100	110
Student Visitors	277	267	318	401	358
Day 3 - Next-Day Interviews	2015	2016	2017	2018	2019
Participating Employers	19	27	31	29	37
Next-Day Interviews	200	230	249	260	343

Source: College of Engineering Career Services

2020 Virtual Durham School Career Fair



Due to COVID-19, the 2020 Durham School Career Fair was held virtually via Zoom

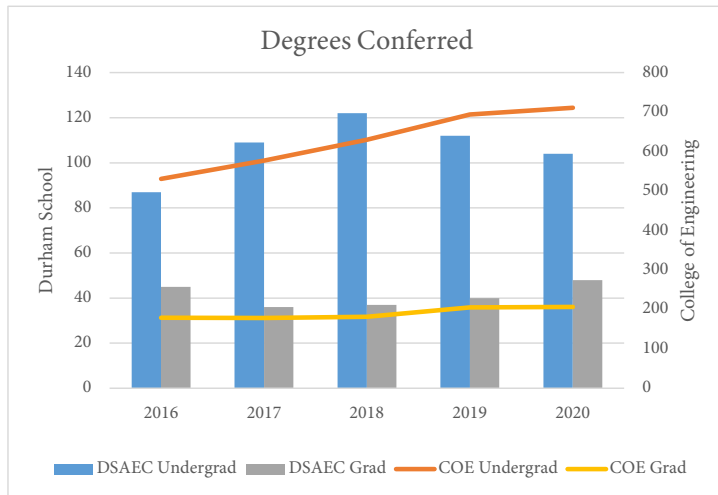


Degrees Conferred

Undergraduate Degrees	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20
Architectural Engineering	13	28	35	30	23
Construction Management (Lincoln)	43	45	60	48	52
Construction Management (Omaha)	26	29	18	26	19
Construction Engineering (Lincoln)	2	2	6	6	3
Construction Engineering (Omaha)	3	5	3	2	7
Durham School	87	109	122	112	104
College of Engineering	531	577	630	694	711

Graduate Degrees	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20
Architectural Engineering - M.A.E.	29	17	24	26	35
Architectural Engineering - M.S.	1	9	3	2	7
Architectural Engineering - Ph.D.	5	2	3	4	1
Construction - M.S.	6	5	4	6	1
Construction - Ph.D.	4	3	3	2	2
Durham School	45	36	37	40	46
College of Engineering	179	178	181	205	206

Source: College of Engineering



Total Alumni To-Date

Architectural Engineering 590+

Construction 3150+

Source: Durham School Alumni Databases

Construction Student Placement

Construction Undergraduates	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20
Alumni Records/Total Graduates	47/74	67/81	72/87	75/82	44/81
Employed in Construction Industry ¹	98%	99%	97%	93%	91%
Employed in Non-Construction Industry ¹	2%	1%	3%	4%	2%
Additional Education ¹	0%	0%	0%	3%	7%
Average Starting Salary	\$52,669	\$55,560	\$57,694	\$58,131	\$66,365

Source: Durham School Construction Alumni Database
 1) Of known records

Academic Appointments – Graduate Students (Ph.D.)

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
2019	Zhexiong Shang	University of Nebraska-Lincoln

Industry Placement – Graduate Students (Ph.D.)

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

Source: Durham School Construction Alumni Database



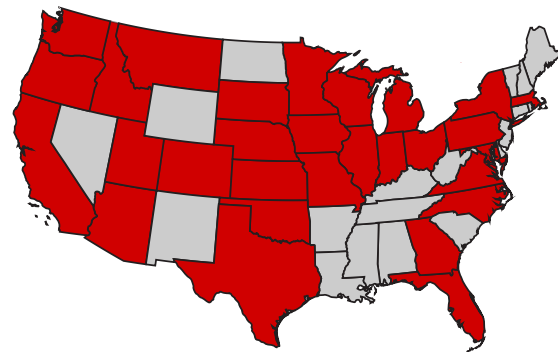
Architectural Engineering Student Placement

Master of Architectural Engineering (M.A.E.)	AY 2015-16	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20
Alumni Records/Total Graduates	27/29	17/17	24/24	22/26	24/35
Employed in AE Industry ¹	100%	100%	100%	86%	100%
Employed in Non-AE Industry ¹	0%	0%	0%	9%	0%
Additional Education ¹	0%	0%	0%	5%	0%
Average Starting Salary [‡]	\$59,917	\$58,818	\$59,970	\$58,409	\$63,875

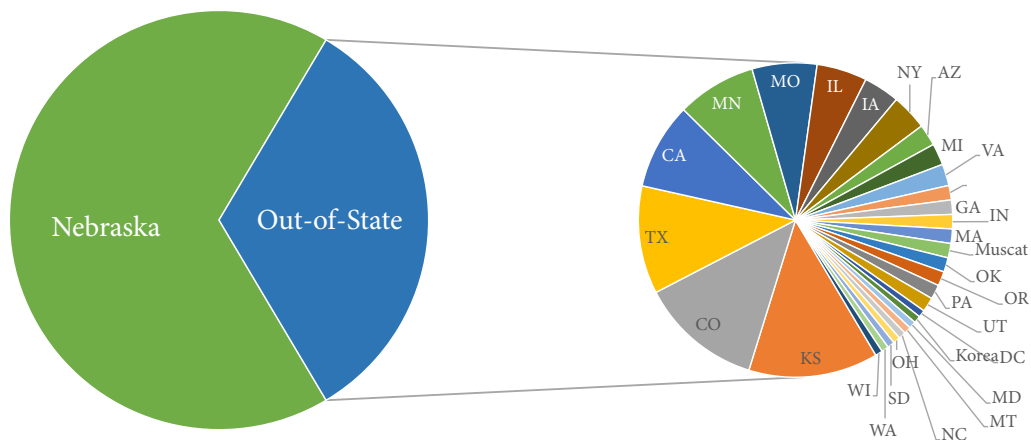
M.A.E. Top Employer List

- AE Design
- Affiliated Engineers, Inc.
- Alfred Benesch & Company
- Alvine Engineering
- Branch Pattern
- Clark Enersen Partners
- DLR Group
- Energy Studio, Inc.
- Engineering Technologies, Inc.
- Farris Engineering
- HDR, Inc.
- Henderson Engineers, Inc.
- HGA Architects & Engineers
- Kiewit
- KPE Consulting Engineers
- Leo A Daly
- M-E Engineers, Inc.
- Morrissey Engineering
- Olsson Associates
- Performance Engineering
- Professional Engineering Consultants
- Schmidt & Stacy
- Schnackel Engineers
- SmithGroup JJR
- Specialized Engineering Solutions
- TD2
- Union Pacific
- US Army Corps of Engineers

M.A.E. Employment First Destinations



Nebraska AE Graduate Location



Source: Durham School Architectural Engineering Alumni Database

1) Of known records

‡ AY16, AY17 – Source: College of Engineering Career Services

AY18, AY19, AY20 – Source: Durham School Architectural Engineering Alumni Database

Architectural Engineering Student Placement

Academic Appointments – Graduate Students (Ph.D.)

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
2018	Sungmin Yoon	Incheon National University
2019	Yoshimi Hasegawa	National University of Singapore
2019	Bora Pulatsu	University of Nebraska-Lincoln

Industry Placement – Graduate Students (Ph.D.)

2016	Matthew Blevins	U.S. Army Engineer Research and Development Center (ERDC)
2016	Ariel Kousgaard	Wiss, Janney, Elstner Associates, Inc.
2018	Alireza Behfar	Paul Mueller Company
2018	Jay Bliefnick	Acentec
2018	Mehdi Mehrabi	Paradigm Consulting Engineers
2020	Arpan Guha	AES Lighting Group

Source: Durham School Architectural Engineering Alumni Database





Advisory Boards

Durham School Advisory Board

Doug Alvine	Alvine and Associates, Inc.	Doug Glaser	Kiewit Infrastructure Group
Mike Ayars	Ayars & Ayars, Inc.	Mary "Sunny" D. Lundgren	Sunny Durham Family Foundation
Lynne Durham Boyer	John K. and Lynne Durham Family Foundation	Nancy Melby	Leo A Daly
Guenter Dziuvenis	AVI Systems	Mike Moran	HDR, Inc. (Retired)
		Ken West	DLR Group (Retired)

Architectural Engineering Industry Advisory Committee (AEIAC)

Ryan Curtis	Leo A Daly	Mike Moran	HDR, Inc. (Retired)
Darren Dageforde	UNMC (Retired)	George Morrissey	Morrissey Engineering
Stephanie Guy	Alvine and Associates, Inc.	Brent Protzman	Lutron Electronics
Amy Hackney	Simpson Gumpertz & Heger, Inc.	Mark Sarkisian	Skidmore, Owings & Merrill LLP
Eric Kamin	DLR Group	Chrysanthi Stockwell	Hammel, Green and Abrahamson, Inc.
Rodrigo Manriquez	SmithGroup JJR	Steve Yanke	Affiliated Engineers, Inc.
Rodd Merchant	JE Dunn Construction	Andy Yosten	HDR, Inc.
Erik Miller-Klein	A3 Acoustics, LLP		

Construction Industry Advisory Council (CIAC)

Jonathon (J.D.) Adam	Bauer Underground	Greg Key	Lueder Construction Co.
Mark Arnold	GH Phipps	Chris Kingery	Kingery Construction Company
Nate Barry	Metropolitan Community College	Mark Menousek	JE Dunn
Mark Berner	MCL Construction	Tim Meyer	Boyd Jones
Ryan Burbach	New Generation Construction	Mike Naccarato	SGH/Redglaze Holding, Inc.
Brent Burger	Black & Veatch Construction	Mark Nienhueser	Tetrad Property Group
Bryan Bush	City Glass Company	Travis Noble	McCownGordon
Ted Butler	NEBCO - Constructors	Mike Ostland	Kiewit
Miranda Christiansen	Hensel Phelps	Brian Penner	Hensel Phelps
Pat Cuddigan	New Street Properties	Jean Petsch	AGC Nebraska Building
Jenna Donley	HDR	Kama Pfister	HDR Architecture, Inc.
Paul Dudzinski	Mortenson/McCarthy Joint Venture	Gabe Ronk	MMC Contractors
Branch Foote	Swinerton	Erin Royal	Turner Construction
B.J. Gehrki	The Graham Group	Ryan Sawall	McCarthy Building Companies, Inc.
Scott Gerard	SEMA Construction	Matt Schendt	Hausmann Construction
Doug Glaser	Kiewit	Jeff Schomberg	Johnson Controls, Inc.
Mitch Grady	ET Design/Build	Matt Schulte	Whiting-Turner
Chris Grojean	Hawkins	Jason Tagge	Miller Electric
Chris Harnly	Lund-Ross Constructors	Ryan Watzke	JE Dunn
Joey Hausmann	Hausmann Construction	Chad Westphalen	Waldinger Corporation
Ted Hoog	Brinkmann Constructors	Katie Wilson	AGC Nebraska
Renee Jacobs	AtmosAir Solutions/Clean Air Group	Todd Wimmer	Union Pacific
Kelsey Johnson	MCA Omaha	Robert Wittler	Ayars & Ayars, Inc.
Alan Kennedy	Lueder Construction Co.	Don Wrieth	Kiewit Building Group (Retired)