



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

ANNUAL METRICS

**Academic Years
2017-2021[‡]**





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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.





2021-2022 Organizational Chart




Lily Wang
Director

**Durham School
Advisory Board**

City Campus




Matt Barrows
Assistant Professor
of Practice



Phil Barutha
Assistant Professor



Kevin Grosskopf
Professor



Vish Reddi
Assistant Professor
of Practice




Tony Roebuck
Assistant Professor
of Practice



Zhigang Shen
Associate Professor



Terry Stents
Associate Professor,
CEMT Graduate
Committee Chair




Emmeline Watson
Assistant Professor
of Practice

Scott Campus




Moe Alahmad
Associate Professor



Michelle Eble-Hankins
Associate Professor of
Practice, Arch. Engr. Curriculum
Committee Chair



Iason Konstantzos
Assistant Professor



Josephine Lau
Associate Professor,
Arch. Engr. Graduate
Committee Chair

Industry Fellows



Patrick Cuddigan
NewStreet Properties



Todd Feldman
HDR, Inc.



Rodrigo Manriquez
SmithGroup JJR



Doug Nelson
Leo A Daly



Lauren Ronsse
Lecturer



Todd Shackelford
Alvine Engineering



George Morcoux
Professor




Avery Schwer
Associate Professor




David Yuill
Associate Professor




Melissa Hoffman
Associate Director
of Operations, Assessment and
Continuous Improvement



Fadi Alsaleem
Assistant Professor




Stuart Bernstein
Associate Professor




Kelli Herstein
Assistant Professor
of Practice, Construction
Curriculum Committee Chair



Kyungki Kim
Assistant Professor




Brandon Kreiling
Assistant Professor
of Practice, DSAEC External
Relations Committee Chair



Jennifer Lather
Assistant Professor



Haorong Li
Associate Professor




Marc Maguire
Assistant Professor




Jay Puckett
Professor



Erica Ryherd
Associate Professor



Dale Tiller
Associate Professor



Clarence Waters
Professor, DSAEC
Promotion and Tenure
Committee Chair

Staff



Andrew Bechdolt
Administrative
Technician



Kelly Johnson
Administrative
Technician



Mary Anne Phillippi
Outreach Program
Coordinator



Joshua Sterns
Administrative
Coordinator

Degrees Offered

	Bachelor of Science (B.S.)	Graduate Certificate	Master of Architectural Engineering (M.A.E.)	Master of Science (M.S.)	Doctoral (Ph.D.)
Architectural Engineering <i>(Omaha Only)</i>	X		X	X	X
Construction Management <i>(Omaha & Lincoln)</i>	X				
Construction Engineering <i>(Omaha & Lincoln)</i>	X				
Construction Engineering and Management (CEMT) <i>(Omaha & Lincoln)</i>		X		X	X

Journal Publications/Conference Proceedings

	2016	2017	2018	2019	2020
Journal Publications	41	30	20	46	52
Conference Proceedings	34	33	36	46	18
Total	75	63	56	92	70

All journal publications and conference proceedings are peer-reviewed

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

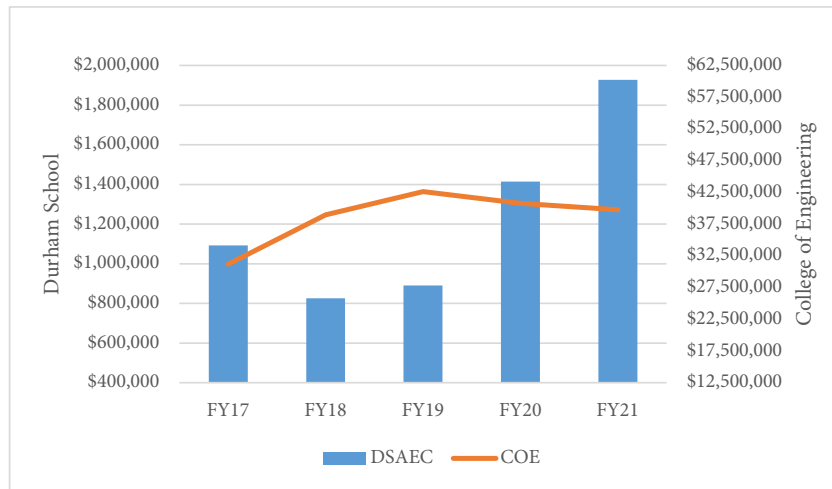




Research Expenditures

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Durham School	\$1,092,414	\$825,973	\$891,258	\$1,414,984	\$1,927,768
College of Engineering	\$31,166,595	\$38,974,739	\$42,625,856	\$40,773,628	\$39,756,241

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



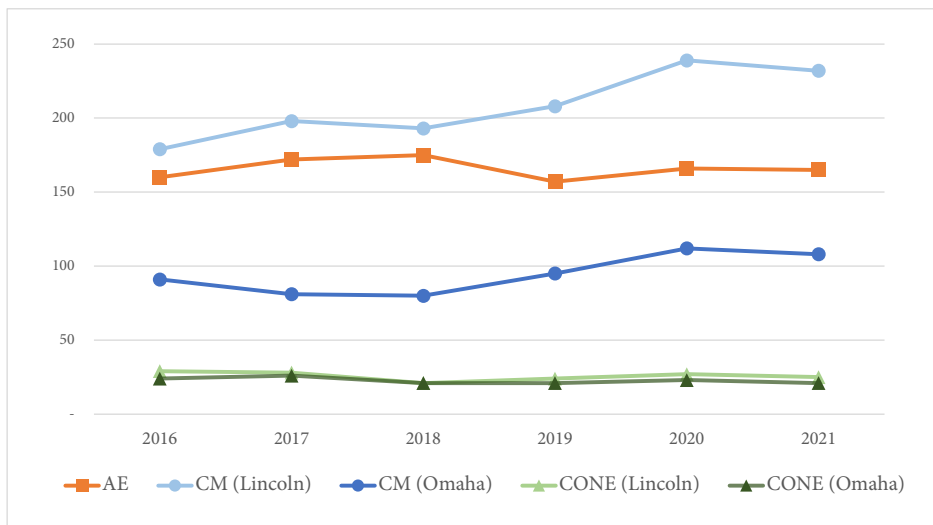
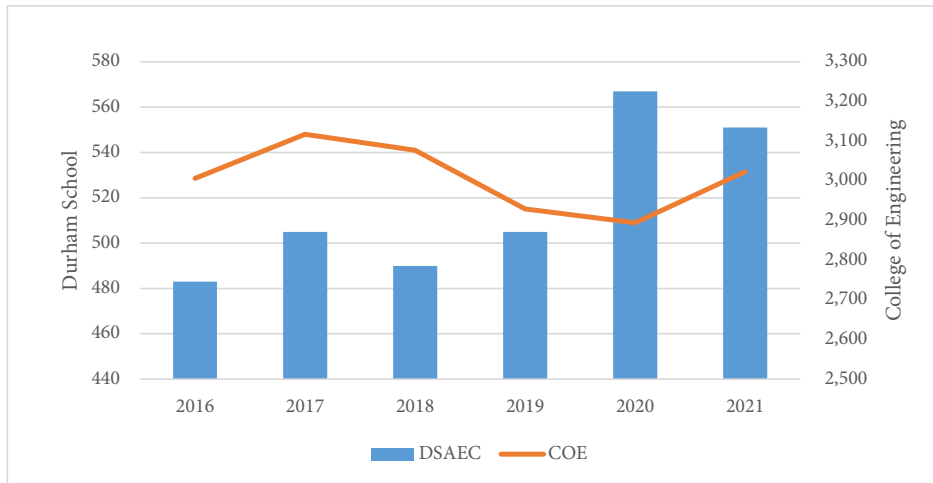


Undergraduate Enrollment

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Architectural Engineering	160	172	175	157	166	165
Construction Management (Lincoln)	179	198	193	208	239	232
Construction Management (Omaha)	91	81	80	95	112	108
Construction Engineering (Lincoln)	29	28	21	24	27	25
Construction Engineering (Omaha)	24	26	21	21	23	21
Durham School	483	505	490	505	567	551
College of Engineering ¹	3,066	3,117	30,77	2,929	2,894	3,023

Source: College of Engineering

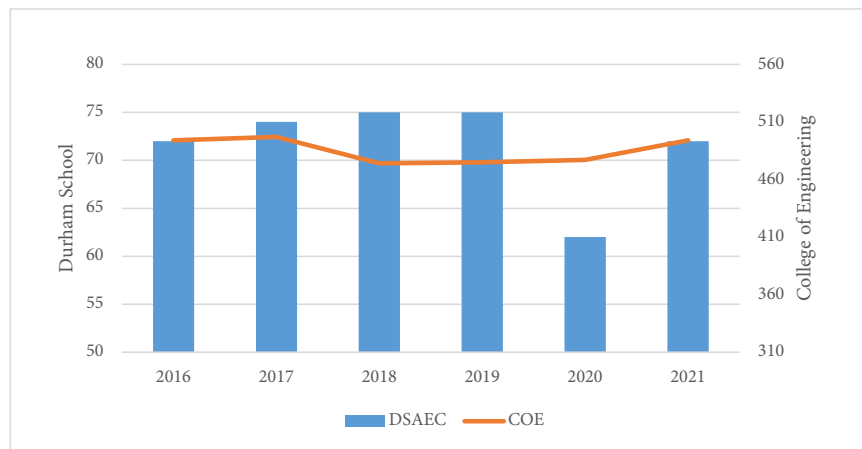
1) Fall 2021 – Includes Jeffrey S. Raikes School of Computer Science and Management



Graduate Enrollment

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Architectural Engineering – M.A.E.	24	28	36	38	24	27
Architectural Engineering – M.S.	7	3	9	7	1	3
Architectural Engineering – Ph.D.	18	19	13	14	18	18
Construction – Graduate Certificate					2	3
Construction – M.S.	2	6	8	6	9	11
Construction – Ph.D.	21	18	9	10	8	10
Durham School	72	74	75	75	62	72
College of Engineering	494	497	474	475	477	494

Source: College of Engineering



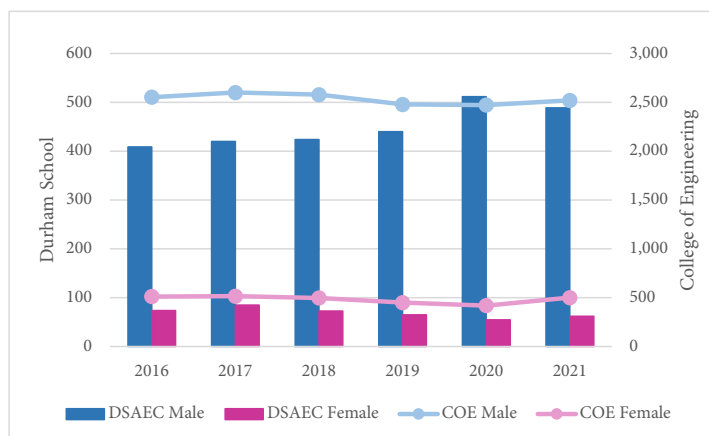


Gender Undergraduate

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Architectural Engineering						
Male	107	115	129	113	128	122
Female	53	57	53	44	38	43
Construction Management (Lincoln)						
Male	173	189	184	197	229	223
Female	6	9	9	11	10	9
Construction Management (Omaha)						
Male	82	69	72	89	106	102
Female	9	12	8	6	6	6
Construction Engineering (Lincoln)						
Male	26	26	19	21	26	22
Female	3	2	2	3	1	3
Construction Engineering (Omaha)						
Male	21	21	20	20	23	20
Female	3	5	1	1	0	1

Durham School						
Male	409	420	424	440	512	489
Female	74	85	73	65	55	62
College of Engineering						
Male	2,554	2,601	2,579	2,479	2,474	2,521
Female	512	516	498	450	420	502

Source: Institutional Effectiveness and Analytics; College of Engineering



Ethnicity Undergraduate

Durham School	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
American Indian/Alaska Native	0	0	0	0	0	1
Asian	4	7	14	16	16	9
Black, Non-Hispanic	14	13	7	7	8	12
Hispanic	23	29	38	42	54	51
Non-Resident Alien	19	50	37	23	14	10
Pacific Islander	0	0	0	0	0	0
Two or More Races	9	5	8	15	16	19
Unknown	7	7	7	6	3	3
White, Non-Hispanic	380	394	379	396	456	446

College of Engineering	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
American Indian/Alaska Native	2	4	5	4	3	4
Asian	92	103	108	97	111	145
Black, Non-Hispanic	78	71	55	53	59	75
Hispanic	143	168	210	215	237	251
Non-Resident Alien	314	335	314	261	188	166
Pacific Islander	1	1	1	1	1	0
Two or More Races	71	78	77	90	87	95
Unknown	58	53	41	32	33	27
White, Non-Hispanic	2,307	2,304	2,266	2,176	2,175	2,260

Source: Institutional Effectiveness and Analytics

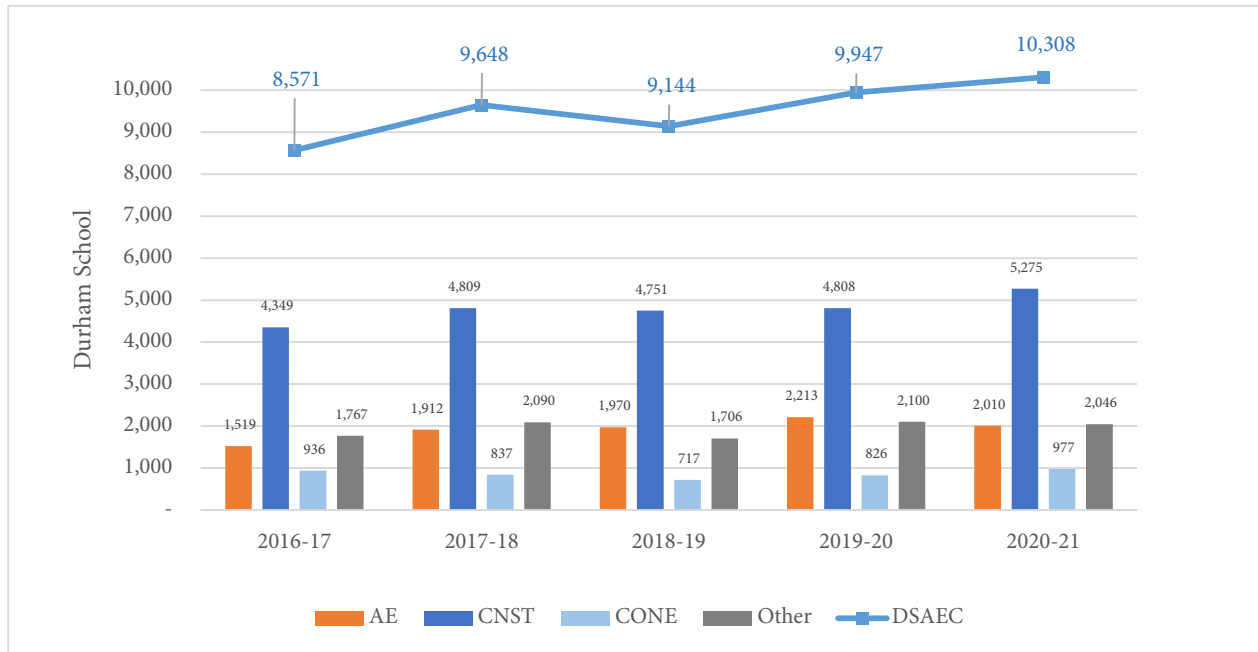




Credit Hours Taught

	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20	AY 2020-21
Durham School					
Architectural Engineering	1,519	1,912	1,970	2,213	2,010
Construction Management	4,349	4,809	4,751	4,808	5,275
Construction Engineering	936	837	717	826	977
Other	1,767	2,090	1,706	2,100	2,046
Total	8,571	9,648	9,144	9,947	10,308

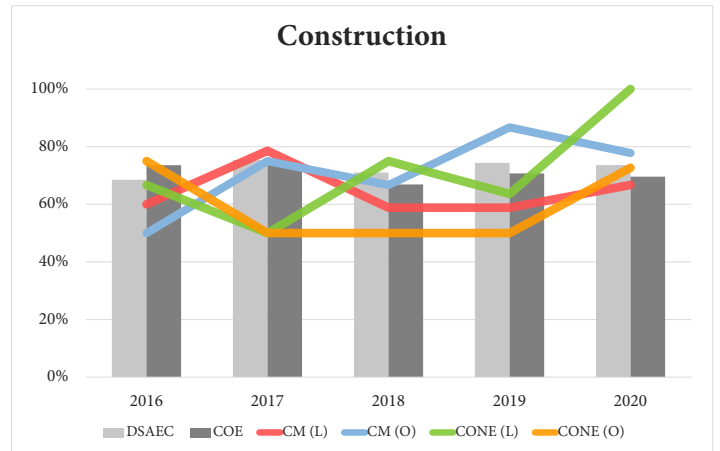
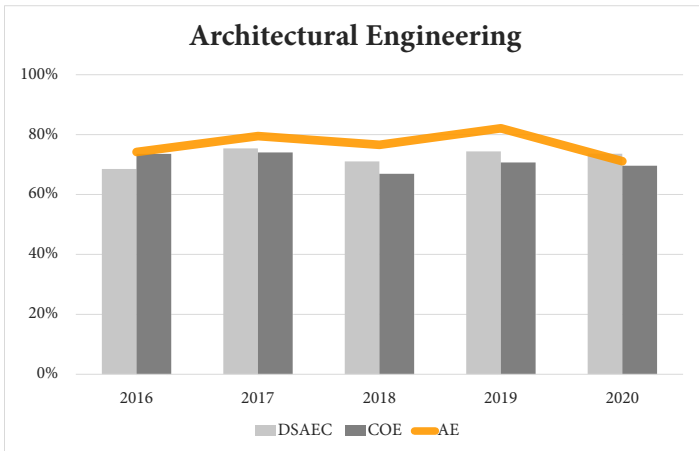
Source: College of Engineering



Retention Rates

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Architectural Engineering	74.2%	79.5%	76.6%	82.1%	71.1%
Construction Management (Lincoln)	60.0%	78.6%	58.8%	58.8%	66.7%
Construction Management (Omaha)	50.0%	75.0%	66.7%	86.7%	77.8%
Construction Engineering (Lincoln)	66.7%	50.0%	75.0%	63.6%	100.0%
Construction Engineering (Omaha)	75.0%	50.0%	50.0%	50.0%	72.7%
Durham School	68.5%	75.4%	71.1%	74.4%	73.6%
College of Engineering	73.6%	74.0%	66.9%	70.7%	69.6%

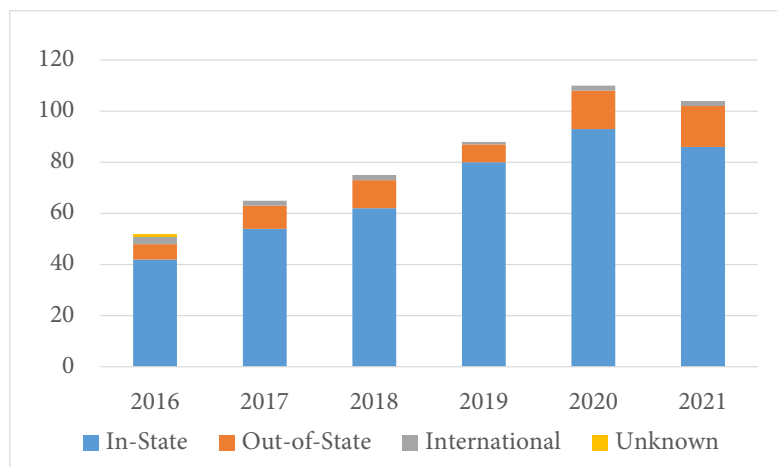
Source: College of Engineering; based on first-time, first-year undergraduate students who continue to the next year





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

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Architectural Engineering						
In-State	26	37	40	39	42	42
Out-of-State	2	1	5	2	2	9
International	2	1	1	0	1	2
Unknown/No Data	1	0	0	0	0	0
Construction Management						
In-State	12	13	18	27	40	28
Out-of-State	2	5	4	4	10	6
International	1	0	1	1	1	0
Unknown/No Data	0	0	0	0	0	0
Construction Engineering						
In-State	4	4	4	14	11	16
Out-of-State	2	3	2	1	3	1
International	0	1	0	0	0	0
Unknown/No Data	0	0	0	0	0	0
Combined						
In-State	42	54	62	80	93	86
Out-of-State	6	9	11	7	15	16
International	3	2	2	1	2	2
Unknown/No Data	1	0	0	0	0	0



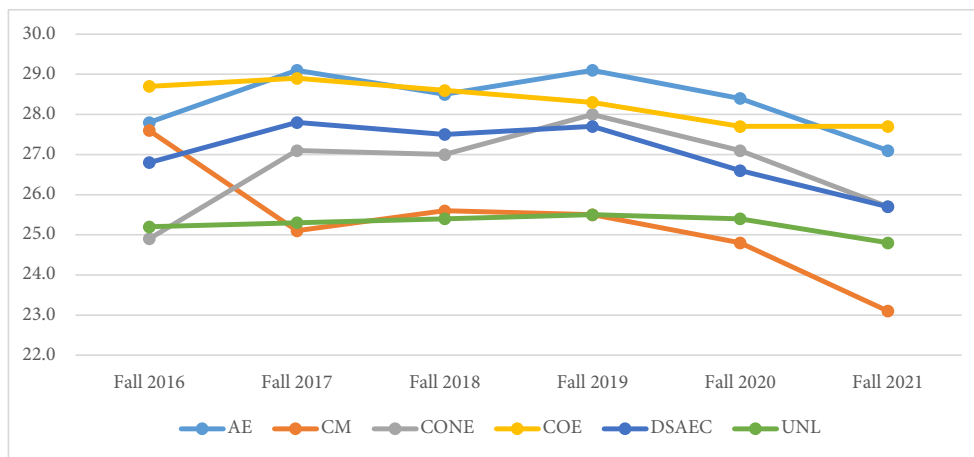
Source: College of Engineering;
based on first-time, first-year
undergraduate students



ACT Scores First-Time Freshman

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Architectural Engineering	27.8	29.1	28.5	29.1	28.4	27.1
Construction Management	27.6	25.1	25.6	25.5	24.8	23.1
Construction Engineering	24.9	27.1	27.0	28.0	27.1	25.7
Durham School	26.8	27.8	27.5	27.7	26.6	25.7
College of Engineering	28.7	28.9	28.6	28.3	27.7	27.7
University of Nebraska - Lincoln	25.2	25.3	25.4	25.5	25.4	24.8

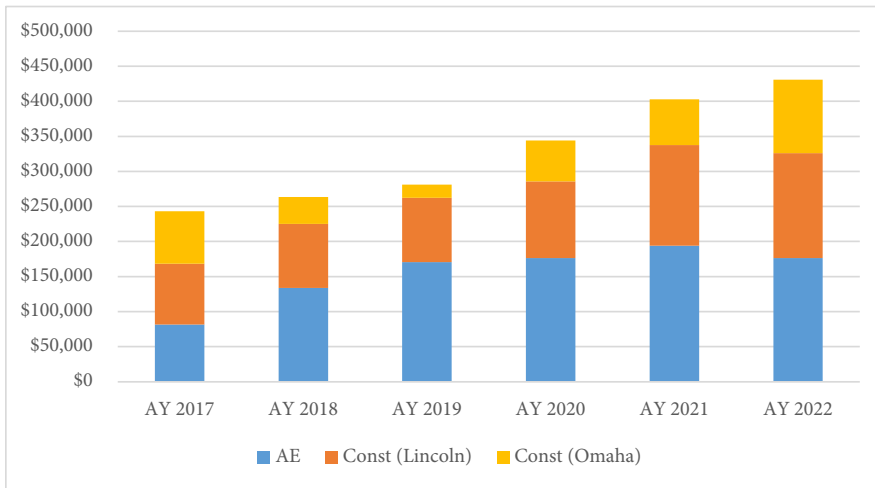
Source: Institutional Effectiveness and Analytics; College of Engineering



Undergraduate Scholarships Awarded by The Durham School

	AY 2017	AY 2018	AY 2019	AY 2020	AY 2021	AY 2022
Architectural Engineering	\$81,760	\$133,750	\$170,500	\$176,500	\$193,931	\$176,500
Construction (Lincoln)	\$86,735	\$91,300	\$92,050	\$109,250	\$143,510	\$149,500
Construction (Omaha)	\$74,760	\$38,600	\$18,800	\$58,500	\$65,365	\$105,000
Total	\$243,255	\$263,650	\$281,350	\$344,250	\$402,806	\$431,000

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



Durham School Career Fair Statistics

Day 1 - Internship Presentations	2016	2017	2018	2019	2020	2021
Student Presentations	27	29	40	44	47 ^V	64 ^V
Attendance	204	208	238	234	N/A ^V	N/A ^V

Day 2 - Career Fair	2016	2017	2018	2019	2020	2021
Registered Employers	81	81	100	110	80 ^V	86 ^I
Student Visitors	267	318	401	358	338 ^V	293 ^I

Day 3 - Next-Day Interviews	2016	2017	2018	2019	2020	2021
Participating Employers	27	31	29	37	N/A [‡]	N/A [‡]
Next-Day Interviews	230	249	260	343	N/A [‡]	N/A [‡]

Source: College of Engineering Career Services

V) Event held virtually via Zoom

I) Numbers include in-person fair only

‡) Next-day interviews were not held due to COVID-19



Recent Student Competitions

Academic Years 2019-2021

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

Team Member and Mentors

Ashley Everitt, EIT 4th Year Mechanical Engineering Student Mechanical Emphasis aeveeritt@cornell.edu	John Kramer, EIT 4th Year Mechanical Engineering Student Acoustical Emphasis jkramer@cornell.edu	Jessica Lee, EIT 4th Year Mechanical Engineering Student Mechanical Emphasis jlee@cornell.edu	Michael Sieh, EIT 4th Year Mechanical Engineering Student Mechanical Emphasis msieh@cornell.edu
David Yuill, PhD, PE Industry Mentor	Joe Hazel, PE, LEED AP Industry Mentor		

2020 ASHRAE Design Competition

				STRUCTURAL	
					ELECTRICAL

2020 AEI Student Design Competition

Recent Student Competitions Academic Years 2019-2021

2021 Architectural Engineering Institute (AEI) Student Design Competition

1st Place	Integration
1st Place	Mechanical
Innovation	Building Performance, Water Retention

2021 Associated Schools of Construction (ASC) Region 4 Competition

2nd Place	Commercial 2
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2021 National Council of Examiners of Engineering and Surveying (NCEES)

Engineering Education Award –Virginia Tech War Memorial Hall: Integrative Team Design
Prize – \$10,000

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



2021 AEI Student Design Competition



2021 ASC Region 4 Competition

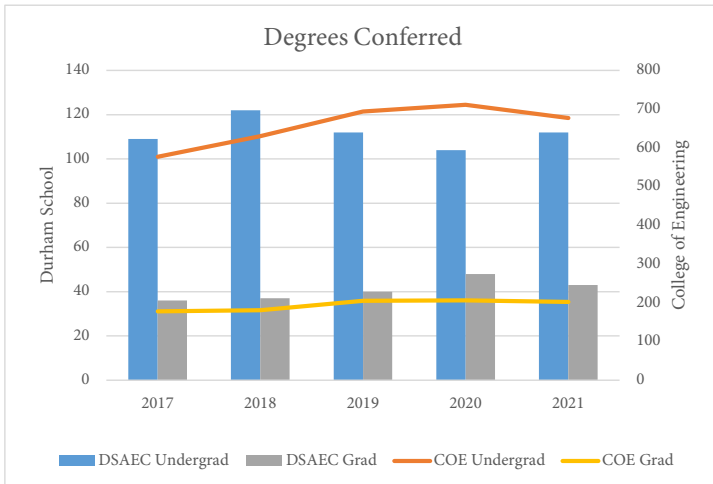


Degrees Conferred

Undergraduate Degrees	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20	AY 2020-21
Architectural Engineering	28	35	30	23	27
Construction Management (Lincoln)	45	60	48	52	57
Construction Management (Omaha)	29	18	26	19	24
Construction Engineering (Lincoln)	2	6	6	3	3
Construction Engineering (Omaha)	5	3	2	7	1
Durham School	109	122	112	104	112
College of Engineering	577	630	694	699	677

Graduate Degrees	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20	AY 2020-21
Architectural Engineering - M.A.E.	17	24	26	35	24
Architectural Engineering - M.S.	9	3	2	7	5
Architectural Engineering - Ph.D.	2	3	4	1	2
Construction - Graduate Certificate					2
Construction - M.S.	5	4	6	1	8
Construction - Ph.D.	3	3	2	2	3
Durham School	36	37	40	46	44
College of Engineering	178	181	205	206	202

Source: College of Engineering



Total Alumni To-Date

Architectural Engineering	640+
Construction	3,270+

Source: Durham School Alumni Databases

Construction Student Placement

Construction Undergraduates	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20	AY 2020-21
Alumni Records/Total Graduates	67/81	73/87	76/82	52/81	44/85
Employed in Construction Industry ¹	99%	97%	93%	90%	92%
Employed in Non-Construction Industry ¹	1%	3%	4%	4%	4%
Additional Education ¹	0%	0%	3%	6%	4%
Average Starting Salary	\$55,560	\$57,694	\$58,131	\$66,365	\$60,181

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

Academic Appointments – Graduate Students (Ph.D.)

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.)

2017	Sherif Gawdat	Dar Al Handasah
2017	Raed Tawadrous	e-Construct, Inc.
2020	Donald Tryon	Union Pacific
2021	Mostafa Aboelkhier	e-Construct, Inc.

Source: Durham School Construction Alumni Database



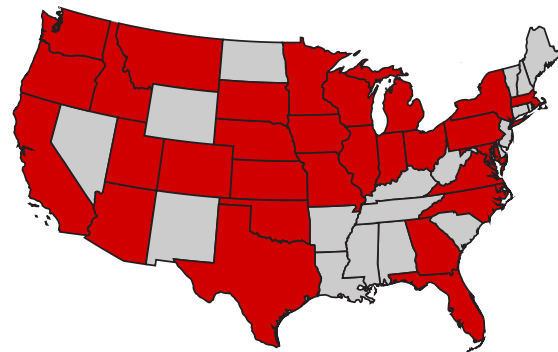
Architectural Engineering Student Placement

Master of Architectural Engineering (M.A.E.)	AY 2016-17	AY 2017-18	AY 2018-19	AY 2019-20	AY 2020-21
Alumni Records/Total Graduates	17/17	24/24	23/26	30/35	22/24
Employed in AE Industry ¹	100%	100%	92%	100%	95%
Employed in Non-AE Industry ¹	0%	0%	4%	0%	0%
Additional Education ¹	0%	0%	4%	0%	5%
Average Starting Salary [‡]	\$58,818	\$59,970	\$59,036	\$63,465	\$63,933

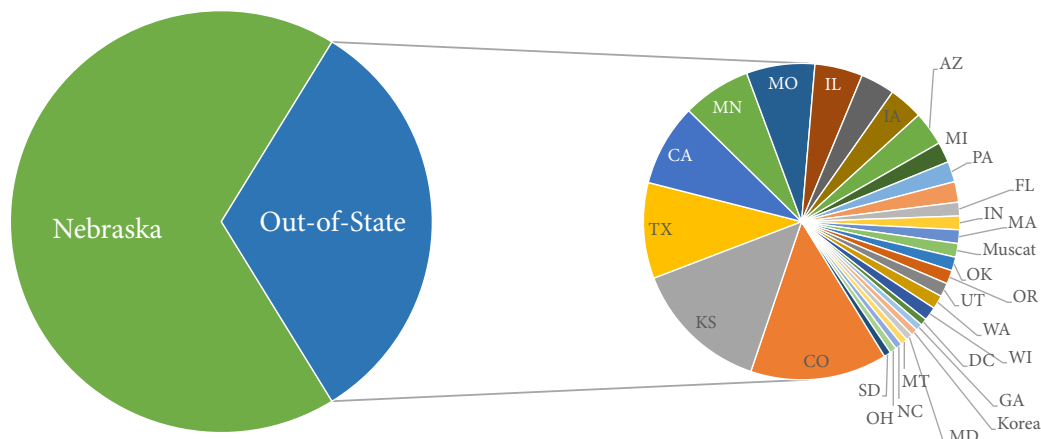
M.A.E. Top Employer List

- 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

‡ AY17 – Source: College of Engineering Career Services

AY18, AY19, AY20, AY21 – Source: Durham School Architectural Engineering Alumni Database

Architectural Engineering Student Placement

Academic Appointments – Graduate Students (Ph.D.)

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
2021	Yifeng Hu	University of Nebraska-Lincoln

Industry Placement – Graduate Students (Ph.D.)

2018	Alireza Behfar	Paul Mueller Company
2018	Jay Bliefnick	Acentec
2018	Mehdi Mehrabi	Paradigm Consulting Engineers
2020	Arpan Guha	AES Lighting Group
2021	Adel KabiriKopaei	Buildertrend Solutions, Inc.

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	Retired; AVI Systems	Mike Moran	Retired; HDR, Inc.
		Ken West	Retired; DLR Group

Architectural Engineering Industry Advisory Committee (AEIAC)

Ryan Curtis	Leo A Daly	Mike Moran	Retired; HDR, Inc.
Darren Dageforde	Retired, UNMC	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	Tenor Engineering Group		

Construction Industry Advisory Council (CIAC)

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