

Master of Arts in English

Program Fit: State/Regional/National Needs:

The study of literature cultivates critical and creative thinking, preparing graduates to lead in an increasingly complex information and innovation economy. The department's expertise in writing and writing pedagogy is vital to the success of all YSU students, and the program trains future composition instructors. English faculty play a significant role in preparing the region's high and middle school English/Language Arts teachers and prepares teachers for eligibility in the College Credit Plus Program. The English M.A. can be used as a building block for additional advanced study (in Ph.D. programs, law school, and other academic and professional programs). The skills and literacies obtained in the program position students well for professional life across the country and abroad.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	17	14	21	25	19%
	# of Diverse Majors	4	5	8	10	25%
	SCH Taught	187	180	314	372	18%
	% SCH Related to Online	%	3%	7%	23%	250%
	% SCH Taught by FT Faculty	%	63%	59%	69%	16%
	# Students Enrolled 2+ Terms	11	9	17	18	6%
Student	# Students Return from Prior Yr	12	8	6	14	133%
Progress	Course Passage Rate	98%	90%	97%	99%	2%
	Primary Degrees Awarded In-Yr	7	5	4	10	150%

Master of Arts in Professional Communication

Program Fit: State/Regional/National Needs:

Projected 10-year career opportunity growth for graduate students with MPC training (U.S. Bureau of Labor and Statistics & Burning Glass Technologies (2019)), includes Social media strategist/specialist (up 17%), Non-profit and community service managers (up 17%), Non-profit and for-profit fundraisers (up 14%), Client-side work – healthcare advocates and health communication (up 13%), Training and development specialists (up 9%), Pursue Ph.D. to become postsecondary teachers and researchers (up 9%), Media Management (up 6%), Sales and Sales Managers (up 4%), Academic support services in higher education (up 4%).

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	26	18	26	32	23%
	# of Diverse Majors	9	8	14	20	43%
	SCH Taught	277	240	343	459	34%
	% SCH Related to Online	%	18%	31%	12%	-59%
	% SCH Taught by FT Faculty	%	66%	69%	58%	-17%
	# Students Enrolled 2+ Terms	17	12	14	22	57%
Student	# Students Return from Prior Yr	17	7	8	12	50%
Progress	Course Passage Rate	92%	94%	100%	94%	-6%
	Primary Degrees Awarded In-Yr	14	7	9	8	-11%

Master of Athletic Training (AT)

Program Fit: State/Regional/National Needs:

The AT field is continuing to rapidly grow. Projected to grow 17% from 2023-2033, which is much higher than the average for all occupations. The demand for athletic trainers is at an all-time high with the growing demand for athletic trainers beyond the traditional high school and collegiate setting into many non-traditional settings including occupational care, public service sector, military and physician's practices. The demand of highly qualified healthcare providers possessing the unique skill set that athletic trainers have, has seen an increase in salaries. The NATA postures that this increase is in direct response to the higher demand, elevated minimum education requirements, and the increased skill set of athletic trainers.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	10	10	5	14	180%
	# of Diverse Majors	4	3	2	5	150%
	SCH Taught	300	261	169	458	171%
	% SCH Related to Online	%	0%	11%	12%	11%
	% SCH Taught by FT Faculty	%	84%	40%	56%	42%
	# Students Enrolled 2+ Terms	10	10	5	14	180%
Student	# Students Return from Prior Yr	4	5	1	3	200%
Progress	Course Passage Rate	100%	100%	100%	100%	0%
	Primary Degrees Awarded In-Yr	5	9	2	6	200%

Master of Business Administration

Program Fit: State/Regional/National Needs:

Ohio has a strong demand for MBA programs driven by the state's diverse economy and employer need for advanced business education. This creates a significant opportunity for institutions to offer MBA programs that align with workforce needs. Supported by data from Gray DI and Risepoint, this demand is reflected in the robust growth of our MBA program, which has expanded to meet the needs of professionals seeking career advancement.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	756	838	896	929	4%
	# of Diverse Majors	130	164	190	211	11%
	SCH Taught	10,394	10,336	11,068	11,754	6%
	% SCH Related to Online	%	0%	1%	0%	-79%
	% SCH Taught by FT Faculty	%	0%	1%	0%	-80%
	# Students Enrolled 2+ Terms	486	548	582	623	7%
Student	# Students Return from Prior Yr	356	443	474	514	8%
Progress	Course Passage Rate	98%	98%	98%	99%	0%
	Primary Degrees Awarded In-Yr	242	297	316	356	13%

Master of Computing and Information Systems

Program Fit: State/Regional/National Needs:

Our program meets the needs of local and regional students looking for a broader learning experience than a traditional Computer Science master's program. The curriculum is rigorous and interdisciplinary in nature that focuses on applied knowledge in computing and information technologies. Graduates of our program are competent in positions across industrial and academic fields needing computing and IT. Nationally, graduates in Computing and Information Systems are in high demand and usually receive high salaries.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	44	191	377	310	-18%
	# of Diverse Majors	38	188	370	299	-19%
	SCH Taught	615	3,082	6,245	4,122	-34%
	% SCH Related to Online	32%	22%	25%	10%	-60%
	% SCH Taught by FT Faculty	99%	66%	67%	79%	17%
	# Students Enrolled 2+ Terms	11	109	296	231	-22%
Student	# Students Return from Prior Yr	10	35	163	250	53%
Progress	Course Passage Rate	97%	99%	99%	98%	-1%
	Primary Degrees Awarded In-Yr	6	23	116	185	59%

Master of Education - Intervention Services

Program Fit: State/Regional/National Needs:

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	25	22	25	25	0%
	# of Diverse Majors	5	5	4	2	-50%
	SCH Taught	804	513	573	554	-3%
	% SCH Related to Online	9%	7%	6%	1%	-91%
	% SCH Taught by FT Faculty	71%	78%	64%	63%	-1%
	# Students Enrolled 2+ Terms	23	12	13	13	0%
Student	# Students Return from Prior Yr	13	10	12	13	8%
Progress	Course Passage Rate	100%	99%	100%	100%	0%
	Primary Degrees Awarded In-Yr	13	10	12	13	8%

Master of Health and Human Services

Program Fit: State/Regional/National Needs:

The US Bureau of Labor Statistics (BLS) expects the American economy to create 11.5 million jobs from 2016-2026. Four million of those jobs will be in the health care field. Degrees in healthcare administration, health informatics and health promotion are in demand. Areas of employment may include hospitals, clinics, nonprofit organizations, and community-based organizations like community health centers and rape-response organizations. Government agencies at the local, state and federal levels employ health promotion specialists to fill health department positions.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	38	30	37	44	19%
	# of Diverse Majors	10	9	10	15	50%
	SCH Taught	439	397	477	583	22%
	% SCH Related to Online	%	97%	95%	90%	-5%
	% SCH Taught by FT Faculty	%	18%	46%	57%	24%
	# Students Enrolled 2+ Terms	20	18	21	26	24%
Student	# Students Return from Prior Yr	25	12	16	18	13%
Progress	Course Passage Rate	93%	94%	94%	94%	0%
	Primary Degrees Awarded In-Yr	15	8	12	18	50%

Master of Music Education

Program Fit: State/Regional/National Needs:

According to a recent report offered by Ohio Citizens for the Arts, Ohio creative industries account for \$41 billion in economic activity; support nearly 300,000 jobs, and generate over \$4.5 billion in federal, state, and local tax revenue each year. Although COVID has hindered the activities of many performing artists, quality musicians are essential to the well-being of any community. Our communities need great arts experiences to enrich the lives of all members. 100% of Music Education graduates who seek positions as music teachers are employed upon graduation.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	1	1	6	11	83%
	# of Diverse Majors	1	0	1	2	100%
	SCH Taught	20	6	41	161	293%
	% SCH Related to Online	0%	0%	73%	84%	15%
	% SCH Taught by FT Faculty	%	50%	88%	79%	-10%
	# Students Enrolled 2+ Terms	1	1	2	7	250%
Student	# Students Return from Prior Yr	0	0	1	5	400%
Progress	Course Passage Rate	100%	100%	100%	100%	0%
	Primary Degrees Awarded In-Yr	0	0	0	6	

Master of Music Performance

Program Fit: State/Regional/National Needs:

According to a report offered by Ohio Citizens for the Arts, Ohio creative industries account for \$41 billion in economic activity; support nearly 300,000 jobs, and generate over \$4.5 billion in federal, state, and local tax revenue each year (Creative Economy Impact Study, BGSU, 2018). Although the pandemic hindered the activities of many artists, quality musicians continue to be essential to the well-being of any community and contribute to quality of life as well as economic indicators. Music performances are integral to many industries that drive economic activity, including but not limited to professional and community ensemble concerts, film, video games, and advertising. Our region has rich and diverse musical traditions, ranging from orchestras to jazz and popular music, and a burgeoning music-scoring industry including for film and video games. The cultural life of the greater Youngstown area thrives through institutions such as The Butler Institute, Ballet Western Reserve, JAC, the programs offered in Cliffe College, the Youngstown Playhouse, and others. Our students and graduates play an essential role in their communities and have an enormous impact on the quality of life. Their work is also essential for sustaining school and community music programs (including marching and concert band, musical theater, choir, etc.). These programs provide important childhood experiences for the young people in our communities, giving them a sense of place and instilling confidence, which is beneficial to their educational and social development. In addition, musical instruction for children, and adults, helps build audiences for the arts as well strengthens communities by developing an ethical and empathetic citizenry - all of which enrich the lives of the people who live and work in our region.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	14	21	22	13	-41%
	# of Diverse Majors	2	2	5	3	-40%
	SCH Taught	274	343	352	194	-45%
	% SCH Related to Online	0%	2%	22%	23%	5%
	% SCH Taught by FT Faculty	79%	62%	60%	63%	5%
	# Students Enrolled 2+ Terms	13	18	19	9	-53%
Student	# Students Return from Prior Yr	6	10	13	9	-31%
Progress	Course Passage Rate	98%	97%	98%	99%	1%
	Primary Degrees Awarded In-Yr	3	7	10	7	-30%

Master of Public Health

Program Fit: State/Regional/National Needs:

Post COVID-19 there has been an increase in the need and awareness of Public Health issues and workers. The Public health workforce is ageing, and the need for newer professionals is large.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	31	29	27	24	-11%
	# of Diverse Majors	8	7	7	6	-14%
	SCH Taught	456	456	352	404	15%
	% SCH Related to Online	%	53%	63%	45%	-28%
	% SCH Taught by FT Faculty	%	65%	34%	45%	33%
	# Students Enrolled 2+ Terms	20	22	20	19	-5%
Student	# Students Return from Prior Yr	11	21	14	14	0%
Progress	Course Passage Rate	97%	95%	96%	99%	3%
	Primary Degrees Awarded In-Yr	4	13	7	13	86%

Master of Respiratory Care

Program Fit: State/Regional/National Needs:

According to the Bureau of Labor and Statistics (2020), employment of respiratory therapists is projected to grow 19% from 2020 to 2029. Growth in the middle-aged and older patient population will lead to an increased incidence of respiratory conditions such as pneumonia, chronic obstructive pulmonary disease (COPD), and other disorders that can permanently damage the heart and lungs or restrict lung function, and in turn lead to an increased demand for respiratory therapy services and treatments, in hospitals, long term care facilities and outpatient facilities. In addition, a growing emphasis on reducing readmissions in hospitals may result in a demand for respiratory therapists as patient discharge planners and patient and family educators. Advances in preventing and detecting disease, improved medication and more sophisticated treatments will also increase the demand for respiratory therapists. Other conditions affecting the general population, such as respiratory problems due to smoking and air pollution, along with respiratory emergencies, will continue to create demand for respiratory therapists.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	24	31	33	31	-6%
	# of Diverse Majors	5	5	6	4	-33%
	SCH Taught	204	301	399	322	-19%
	% SCH Related to Online	%	92%	98%	99%	0%
	% SCH Taught by FT Faculty	%	66%	78%	65%	-17%
	# Students Enrolled 2+ Terms	16	19	26	24	-8%
Student	# Students Return from Prior Yr	15	16	14	17	21%
Progress	Course Passage Rate	90%	99%	95%	98%	4%
	Primary Degrees Awarded In-Yr	6	13	14	15	7%

Master of Science in Business Analytics

Program Fit: State/Regional/National Needs:

The MS in Business Analytics meets regional, state and national needs through the creation of a diverse talent pipeline for both the profit and non-profit sectors. Additionally, the faculty and students of the program help organizations to grow as well as become more efficient. This is accomplished through industry relevant research, faculty consulting and training, faculty supervised student consulting projects, grant administration, participation in various local, regional, and national boards and organizations.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	4	6	11	10	-9%
	# of Diverse Majors	3	5	10	10	0%
	SCH Taught	75	81	131	177	36%
	% SCH Related to Online	%	11%	16%	3%	-79%
	% SCH Taught by FT Faculty	%	59%	75%	63%	-16%
	# Students Enrolled 2+ Terms	3	3	6	9	50%
Student	# Students Return from Prior Yr	1	3	4	5	25%
Progress	Course Passage Rate	100%	96%	100%	100%	0%
	Primary Degrees Awarded In-Yr	1	3	5	4	-20%

Master of Science in Biological Sciences

Program Fit: State/Regional/National Needs:

The MS Biological Sciences program prepares students for work in all professions requiring biological knowledge and perspectives, such as R&D careers in molecular biology, ecology, the environment, biotechnology, and much more.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	22	17	23	29	26%
	# of Diverse Majors	3	5	11	16	45%
	SCH Taught	332	301	338	446	32%
	% SCH Related to Online	%	1%	4%	2%	-55%
	% SCH Taught by FT Faculty	%	71%	67%	54%	-20%
	# Students Enrolled 2+ Terms	15	14	17	23	35%
Student	# Students Return from Prior Yr	14	9	12	16	33%
Progress	Course Passage Rate	97%	95%	98%	88%	-10%
	Primary Degrees Awarded In-Yr	9	1	2	8	300%

Master of Science in Chemistry

Program Fit: State/Regional/National Needs:

The MS Chemistry program provides the local region and beyond with professional graduate-level chemists filling R&D positions in companies such as Lubrizol, Merck and GlaxoSmithKline.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	15	18	15	21	40%
	# of Diverse Majors	13	14	9	15	67%
	SCH Taught	322	317	203	282	39%
	% SCH Related to Online	0%	0%	0%	1%	%
	% SCH Taught by FT Faculty	99%	95%	69%	59%	-15%
	# Students Enrolled 2+ Terms	13	16	11	15	36%
Student	# Students Return from Prior Yr	6	11	8	7	-13%
Progress	Course Passage Rate	97%	99%	98%	83%	-15%
	Primary Degrees Awarded In-Yr	6	7	4	2	-50%

Master of Science in Criminal Justice

Program Fit: State/Regional/National Needs:

A large portion of our graduates become civil servants with tremendous leadership potential upon graduation meeting local, regional, national, and international needs. We were the first master of science in criminal justice program in Ohio over 50 years ago and continue to respond to local, regional, national, and global criminal justice interests.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	44	52	55	63	15%
	# of Diverse Majors	12	16	19	19	0%
	SCH Taught	443	619	611	646	6%
	% SCH Related to Online	%	37%	49%	51%	5%
	% SCH Taught by FT Faculty	%	56%	38%	51%	34%
	# Students Enrolled 2+ Terms	21	33	36	37	3%
Student	# Students Return from Prior Yr	18	19	31	36	16%
Progress	Course Passage Rate	92%	90%	94%	91%	-4%
	Primary Degrees Awarded In-Yr	7	5	7	12	71%

Master of Science in Data Science and Statistics

Program Fit: State/Regional/National Needs:

Category:

Category	Metric	2025	YoY Change
Program Profile	# of Majors	17	
	# of Diverse Majors	12	
	SCH Taught	240	
	% SCH Related to Online	10%	
	% SCH Taught by FT Faculty	19%	
	# Students Enrolled 2+ Terms	6	
Student	# Students Return from Prior Yr	0	
Progress	Course Passage Rate	100%	
	Primary Degrees Awarded In-Yr	0	

Master of Science in Education - Counseling

Program Fit: State/Regional/National Needs:

There is a strong market demand for counselors as evidenced by approx. 100% hiring rate of our graduates by community mental health centers, addiction counseling agencies, private practices, schools, and colleges. Within the tristate area, YSU is the only Counseling Program that offers four CACREP accredited program tracks (i.e., Addiction, Clinical Mental Health and School Counseling, College Counseling & Student Affairs). Many of the Counseling Program interns are hired by their agency before they graduate. According to the Bureau of Labor Statistics (BLS), there continues to be a strong need for licensed professional clinical, licensed school and licensed/certified chemical dependency counselors, student affairs professionals, and workers in community and social service organizations.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	154	156	144	145	1%
	# of Diverse Majors	39	38	43	40	-7%
	SCH Taught	2,825	3,387	2,703	2,843	5%
	% SCH Related to Online	%	0%	20%	15%	-26%
	% SCH Taught by FT Faculty	%	78%	52%	55%	7%
	# Students Enrolled 2+ Terms	110	109	99	110	11%
Student	# Students Return from Prior Yr	101	107	92	98	7%
Progress	Course Passage Rate	98%	98%	99%	99%	0%
	Primary Degrees Awarded In-Yr	35	54	39	49	26%

Master of Science in Education - Curriculum and Instruction

Digital Teaching and Learning

Program Fit: State/Regional/National Needs:

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	47	46	46	46	0%
	# of Diverse Majors	5	4	3	2	-33%
	SCH Taught	612	597	624	591	-5%
	% SCH Related to Online	%	47%	39%	50%	27%
	% SCH Taught by FT Faculty	%	42%	31%	50%	-62%
	# Students Enrolled 2+ Terms	28	32	33	29	-12%
Student	# Students Return from Prior Yr	30	22	26	22	-15%
Progress	Course Passage Rate	100%	99%	100%	99%	-1%
	Primary Degrees Awarded In-Yr	22	17	21	17	-19%

Literacy

Program Fit: State/Regional/National Needs:

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	66	58	61	64	5%
	# of Diverse Majors	6	6	7	8	14%
	SCH Taught	975	648	780	843	8%
	% SCH Related to Online	%	50%	53%	41%	-22%
	% SCH Taught by FT Faculty	%	35%	31%	16%	-47%
	# Students Enrolled 2+ Terms	54	31	36	42	17%
Student	# Students Return from Prior Yr	26	34	26	34	31%
Progress	Course Passage Rate	98%	100%	100%	98%	-1%
	Primary Degrees Awarded In-Yr	22	25	21	24	14%

Teacher Leader

Program Fit: State/Regional/National Needs:

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	19	29	28	32	14%
	# of Diverse Majors	3	4	6	6	0%
	SCH Taught	297	321	390	390	0%
	% SCH Related to Online	%	28%	38%	47%	24%
	% SCH Taught by FT Faculty	%	0%	2%	10%	550%
	# Students Enrolled 2+ Terms	13	13	21	23	10%
Student	# Students Return from Prior Yr	2	17	14	18	29%
Progress	Course Passage Rate	95%	98%	98%	98%	0%
	Primary Degrees Awarded In-Yr	1	13	8	12	50%

Master of Science in Education - Educational Administration

Program Fit: State/Regional/National Needs:

According to the program evaluation data provided by Gray Associates, during the 2019 period, student demand was at the 97th percentile with 421 completions with 247 at 58.6% being online statewide. Google search volume decreased by 1%, but there were 1,800 google searches in a three-month period, indicating substantial interest in the program. In terms of national employment, this program area was at the 96th percentile in terms of employment. The percentile rankings for job posting was 92nd, annual job openings at 91st with 623 job openings posted. This is an average of 2.2 jobs posted per graduate. National average wages are in the 88th percentile around \$54,000 for individuals under the age of 30 and at \$80,000 for individuals between the ages of 30 and 60. There is substantial competition for our program with 201 institutions with online programs in our market and 259 institutions with online programs nationally.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	162	158	159	151	-5%
	# of Diverse Majors	21	21	29	28	-3%
	SCH Taught	2,351	2,068	2,096	2,240	7%
	% SCH Related to Online	%	4%	4%	4%	-2%
	% SCH Taught by FT Faculty	%	0%	0%	1%	68%
	# Students Enrolled 2+ Terms	112	105	106	103	-3%
Student	# Students Return from Prior Yr	89	94	83	82	-1%
Progress	Course Passage Rate	97%	97%	98%	99%	0%
	Primary Degrees Awarded In-Yr	28	52	55	52	-5%

Master of Science in Education - Special Education

Program Fit: State/Regional/National Needs:

Overall employment of special education teachers is projected to grow 3% from 2019 to 2029. Employment of preschool education teachers is projected to grow 8% from 2019 to 2029. Demand will be driven by school enrollments and the need for special education services and is expected to rise as disabilities are being identified earlier and as children with disabilities are enrolled into special education programs. A variety of service providers (behavior interventionists, school psychologists and Board Certified Behavior Analysts) are needed to improve schools' capacities to meet the needs of students with disabilities.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	79	85	95	73	-23%
	# of Diverse Majors	11	13	15	9	-40%
	SCH Taught	921	1,065	1,215	855	-30%
	% SCH Related to Online	%	43%	65%	55%	-15%
	% SCH Taught by FT Faculty	%	10%	24%	26%	10%
	# Students Enrolled 2+ Terms	56	58	65	50	-23%
Student	# Students Return from Prior Yr	49	36	52	39	-25%
Progress	Course Passage Rate	96%	97%	98%	96%	-1%
	Primary Degrees Awarded In-Yr	29	25	38	29	-24%

Master of Science in Engineering

Chemical Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	9	8	11	9	-18%
	# of Diverse Majors	5	6	9	7	-22%
	SCH Taught	114	150	154	137	-11%
	% SCH Related to Online	%	0%	6%	4%	-38%
	% SCH Taught by FT Faculty	%	72%	62%	54%	-12%
	# Students Enrolled 2+ Terms	3	7	7	6	-14%
Student	# Students Return from Prior Yr	5	5	6	7	17%
Progress	Course Passage Rate	94%	100%	98%	92%	-7%
	Primary Degrees Awarded In-Yr	4	2	4	5	25%

Civil and Environmental Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	15	16	28	27	-4%
	# of Diverse Majors	15	15	27	26	-4%
	SCH Taught	223	217	357	388	9%
	% SCH Related to Online	7%	0%	0%	0%	0%
	% SCH Taught by FT Faculty	100%	78%	63%	58%	-8%
	# Students Enrolled 2+ Terms	10	12	18	24	33%
Student	# Students Return from Prior Yr	2	10	10	17	70%
Progress	Course Passage Rate	100%	96%	94%	98%	4%
	Primary Degrees Awarded In-Yr	1	1	4	4	0%

Electrical Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	19	22	23	5	-78%
	# of Diverse Majors	13	17	18	5	-72%
	SCH Taught	279	343	189	90	-52%
	% SCH Related to Online	%	0%	2%	0%	-100%
	% SCH Taught by FT Faculty	%	66%	59%	79%	34%
	# Students Enrolled 2+ Terms	13	16	7	5	-29%
Student	# Students Return from Prior Yr	7	12	11	4	-64%
Progress	Course Passage Rate	99%	98%	92%	97%	5%
	Primary Degrees Awarded In-Yr	3	7	2	1	-50%

Electrical and Computer Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category:

Category	Metric	2024	2025	YoY Change
Program Profile	# of Majors	9	10	11%
	# of Diverse Majors	6	6	0%
	SCH Taught	69	132	91%
	% SCH Related to Online	0%	7%	%
	% SCH Taught by FT Faculty	52%	65%	25%
	# Students Enrolled 2+ Terms	0	8	%
Student	# Students Return from Prior Yr	0	7	%
Progress	Course Passage Rate	100%	100%	0%
	Primary Degrees Awarded In-Yr	1	4	300%

Engineering Management

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	10	15	18	22	22%
	# of Diverse Majors	4	5	2	2	0%
	SCH Taught	97	172	234	273	17%
	% SCH Related to Online	%	54%	54%	79%	47%
	% SCH Taught by FT Faculty	%	27%	54%	79%	47%
	# Students Enrolled 2+ Terms	8	10	17	17	0%
Student	# Students Return from Prior Yr	6	6	8	12	50%
Progress	Course Passage Rate	91%	88%	97%	99%	2%
	Primary Degrees Awarded In-Yr	2	3	5	6	20%

Industrial and Systems Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	0	7	13	14	8%
	# of Diverse Majors	0	7	13	14	8%
	SCH Taught	0	93	197	193	-2%
	% SCH Related to Online	-	45%	31%	40%	28%
	% SCH Taught by FT Faculty	-	52%	71%	81%	14%
	# Students Enrolled 2+ Terms	0	4	8	8	0%
Student	# Students Return from Prior Yr	0	0	6	7	17%
Progress	Course Passage Rate	-	97%	99%	97%	-2%
	Primary Degrees Awarded In-Yr	0	0	5	3	-40%

Mechanical Engineering

Program Fit: State/Regional/National Needs:

The fast advancing technologies demand additional training of an engineer with advanced knowledge in the engineering fields. More employers are sending engineers back to school for an advanced degree with tuition reimbursements. The lifelong learning nature of an engineering career also appeals to the recently graduated Bachelor's degree students to come back for more advanced graduate classes.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	18	23	21	22	5%
	# of Diverse Majors	13	16	15	16	7%
	SCH Taught	303	356	310	302	-3%
	% SCH Related to Online	1%	0%	1%	2%	105%
	% SCH Taught by FT Faculty	100%	87%	80%	71%	-11%
	# Students Enrolled 2+ Terms	14	18	15	13	-13%
Student	# Students Return from Prior Yr	7	14	9	12	33%
Progress	Course Passage Rate	97%	94%	86%	94%	9%
	Primary Degrees Awarded In-Yr	3	6	5	8	60%

Master of Science in Environmental Science

Program Fit: State/Regional/National Needs:

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	10	6	12	17	42%
	# of Diverse Majors	6	5	12	16	33%
	SCH Taught	131	65	188	213	13%
	% SCH Related to Online	%	0%	6%	7%	10%
	% SCH Taught by FT Faculty	%	48%	49%	34%	-30%
	# Students Enrolled 2+ Terms	6	2	8	10	25%
Student	# Students Return from Prior Yr	7	3	4	10	150%
Progress	Course Passage Rate	87%	96%	95%	96%	1%
	Primary Degrees Awarded In-Yr	4	0	0	1	-

Master of Science in Mathematics

Program Fit: State/Regional/National Needs:

Regional, state, and national reports indicate the need for a highly trained workforce, particularly in the STEM disciplines. The Occupational Outlook Handbook cites faster than average growth in employment of mathematicians and statisticians (32% between 2022-2032) and actuaries (23%). According to LinkedIn, machine learning engineers, data scientists, and big data engineers rank among the top emerging jobs (growing over 650% since 2012). The Department reaches beyond the boundaries of Youngstown. Our varied course offerings and mathematics pathways give students the ability to take courses relevant to their future goals. We continue to develop and modify our programming to meet the needs of the region, including enhancing our actuarial science, data analytics, and applied statistics offerings. Our faculty are active participants in the Ohio Mathematics Initiative (OMI) and provide input on the direction of higher education in mathematics in Ohio. Faculty serve on state committees. One faculty member served on the Ohio Department of Education's working group revising the K-12 Mathematics Standards, and the Ohio Model Curriculum writing team. We are a frontrunner in the State of Ohio initiatives to streamline mathematics pathways and improve student success and retention. We continue to lead in the implementation of Ohio Mathematics Initiatives (a recent poll of faculty indicated involvement in or committee service on 31 different state and local math initiatives within the last 5 years). We have exploited the growth in awareness and student interest in actuarial science to attract students from the Northeastern Ohio region and beyond (international recognition for actuarial science has the potential to attract a diverse population of international graduate students). Faculty serve on national committees and executive boards of the Mathematical Association of America, American Mathematical Society, and Pi Mu Epsilon, the national mathematics honors society. The Department also contains nationally recognized faculty who participate and lead in other national, state, and local mathematical organizations (ASA, AWM, IATTS, NCTM, OCTM, ODE, OMAA, OMC, OMI, OTM, PMMAF, SIAM, SOA). We consistently send students to Ph.D. programs around the country (Kent State, University of Virginia, University of Louisiana, University of Kentucky, etc.)

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	20	23	25	33	32%
	# of Diverse Majors	13	14	15	14	-7%
	SCH Taught	386	379	395	489	24%
	% SCH Related to Online	%	17%	10%	14%	46%
	% SCH Taught by FT Faculty	%	57%	50%	25%	-50%
	# Students Enrolled 2+ Terms	17	21	17	24	41%
Student	# Students Return from Prior Yr	11	14	7	16	129%
Progress	Course Passage Rate	97%	99%	99%	98%	-1%
	Primary Degrees Awarded In-Yr	4	14	6	12	100%

Master of Science in Nursing - Adult-Gerontology Acute Care Nurse Practitioner

Program Fit: State/Regional/National Needs:

To meet the health care needs of our community, nursing graduate students have the opportunity to become employed within 6-12 months after graduation in a nursing role. With a local and national shortage of primary care providers, our nurse practitioner graduates seek to meet that need. Our students and graduates volunteer for community health needs including health assessments and examinations, blood pressure screenings, providing vaccines and testing, school health and mental health screenings. Our nurse anesthesia and family nurse practitioner graduates seek employment in healthcare provider shortage areas (HPSAs).

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	40	58	92	109	18%
	# of Diverse Majors	8	13	23	34	48%
	SCH Taught	579	732	1,206	1,605	33%
	% SCH Related to Online	%	11%	6%	6%	-8%
	% SCH Taught by FT Faculty	%	11%	3%	0%	-100%
	# Students Enrolled 2+ Terms	29	38	57	75	32%
Student	# Students Return from Prior Yr	19	23	39	62	59%
Progress	Course Passage Rate	98%	99%	98%	99%	1%
	Primary Degrees Awarded In-Yr	4	9	11	23	109%

Master of Science in Nursing – Nursing Education

Program Fit: State/Regional/National Needs:

Category:		2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	0	7	15	37	147%
	# of Diverse Majors	0	1	5	8	60%
	SCH Taught	0	21	95	194	105%
	% SCH Related to Online	-	0%	21%	29%	43%
	% SCH Taught by FT Faculty	-	0%	21%	29%	43%
	# Students Enrolled 2+ Terms	0	0	8	23	188%
Student	# Students Return from Prior Yr	0	0	5	10	100%
Progress	Course Passage Rate	-	100%	100%	99%	-1%
	Primary Degrees Awarded In-Yr	0	0	2	6	200%

Master of Science in Nursing - Family Nurse Practitioner

Program Fit: State/Regional/National Needs:

To meet the health care needs of our community, nursing graduate students have the opportunity to become employed within 6-12 months after graduation in a nursing role. With a local and national shortage of primary care providers, our nurse practitioner graduates seek to meet that need. Our students and graduates volunteer for community health needs including health assessments and examinations, blood pressure screenings, providing vaccines and testing, school health and mental health screenings. Our nurse anesthesia and family nurse practitioner graduates seek employment in healthcare provider shortage areas (HPSAs).

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	221	301	384	519	35%
	# of Diverse Majors	46	70	84	122	45%
	SCH Taught	3,351	4,277	5,208	6,987	34%
	% SCH Related to Online	%	5%	1%	1%	0%
	% SCH Taught by FT Faculty	%	4%	1%	1%	0%
	# Students Enrolled 2+ Terms	152	217	265	366	38%
Student	# Students Return from Prior Yr	75	160	214	267	25%
Progress	Course Passage Rate	98%	98%	99%	99%	0%
	Primary Degrees Awarded In-Yr	2	45	83	105	27%

Master of Social Work

Program Fit: State/Regional/National Needs:

The U.S. Bureau of Labor Statistics (BLS) predicts a 16% national growth rate for social workers from 2016-2026. In rural areas, BSWs are in high demand to provide community-based services where healthcare and specialized professionals are limited. According to the BLS, there were 728,506 social work jobs in 2022 with Ohio as one of the top 5 employers of social workers, along with California and New York. Employment is expected to grow 7% from 2022 to 2032. Consistent with this, Social Service Agencies in our area are send us weekly job announcements and most social work students are offered a job at their internship before they graduate.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	156	145	124	128	3%
	# of Diverse Majors	43	44	34	39	15%
	SCH Taught	3,295	3,023	2,647	2,686	1%
	% SCH Related to Online	%	49%	72%	64%	-11%
	% SCH Taught by FT Faculty	%	63%	54%	35%	-36%
	# Students Enrolled 2+ Terms	138	138	115	117	2%
Student	# Students Return from Prior Yr	81	70	66	58	-12%
Progress	Course Passage Rate	92%	92%	95%	96%	1%
	Primary Degrees Awarded In-Yr	65	57	51	54	6%

Educational Specialist in School Psychology

Program Fit: State/Regional/National Needs:

The program addresses the shortage of school psychologists throughout the state of Ohio and beyond. All program graduates have secured employment in the field of school psychology and passed the national SPSY Praxis Exam required for state licensure. The program maintains a 98% graduate student retention rate. The Program is nationally recognized through the National Association of School Psychologists (NASP). Through collaboration and partnership with the Ohio Department of Education, each School Psychology intern receives funding for the third year of graduate training (the internship year).

Category: Detailed Analysis

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	23	33	32	29	-9%
	# of Diverse Majors	2	4	6	5	-17%
	SCH Taught	342	570	535	523	-2%
	% SCH Related to Online	0%	0%	6%	5%	-16%
	% SCH Taught by FT Faculty	%	81%	79%	86%	8%
	# Students Enrolled 2+ Terms	12	21	19	19	0%
Student	# Students Return from Prior Yr	10	13	21	20	-5%
Progress	Course Passage Rate	100%	100%	100%	100%	0%
	Primary Degrees Awarded In-Yr	10	12	12	9	-25%

Doctor of Education in Education Leadership

Program Fit: State/Regional/National Needs:

According to the program evaluation data provided by Gray Associates, during the 2019 period, student demand was at the 99th percentile with 149 completions with 145 on-ground at 97.3% and 14 at 9.4% being online statewide. Google search volume decreased by 1%, but there were 1,845 google searches in a three month period, indicating substantial interest in the program. In terms of national employment, this program area was at the 96th percentile in terms of employment. The percentile rankings for job posting was 92nd, annual job openings at 91st with 623 job openings posted. This is an average of 2.2 jobs posted per graduate. National average wages are in the 71st percentile around \$52,000 for individuals under the age of 30 and at \$80,000 for individuals between the ages of 30 and 60. There is substantial competition for our program with 61 institutions with online programs in our market and 71 institutions with online programs nationally.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	83	136	194	240	24%
	# of Diverse Majors	26	41	66	77	17%
	SCH Taught	672	1,722	2,713	3,315	22%
	% SCH Related to Online	%	34%	27%	25%	-6%
	% SCH Taught by FT Faculty	%	24%	13%	16%	16%
	# Students Enrolled 2+ Terms	38	93	152	188	24%
Student	# Students Return from Prior Yr	29	64	106	146	38%
Progress	Course Passage Rate	97%	95%	97%	96%	-1%
	Primary Degrees Awarded In-Yr	8	3	22	34	55%

Doctor of Nursing Practice – Nurse Anesthesia

Program Fit: State/Regional/National Needs:

To meet the health care needs of our community, nursing graduate students have the opportunity to become employed within 6-12 months after graduation in a nursing role. With a local and national shortage of primary care providers, our nurse practitioner graduates seek to meet that need. Our students and graduates volunteer for community health needs including health assessments and examinations, blood pressure screenings, providing vaccines and testing, school health and mental health screenings. Our nurse anesthesia and family nurse practitioner graduates seek employment in healthcare provider shortage areas (HPSAs).

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	20	40	56	57	2%
	# of Diverse Majors	2	5	7	10	43%
	SCH Taught	808	1,394	1,790	1,841	3%
	% SCH Related to Online	%	0%	8%	18%	123%
	% SCH Taught by FT Faculty	22%	24%	23%	20%	-14%
	# Students Enrolled 2+ Terms	20	40	56	57	2%
Student	# Students Return from Prior Yr	0	20	39	37	-5%
Progress	Course Passage Rate	100%	99%	100%	100%	0%
	Primary Degrees Awarded In-Yr	0	0	19	20	5%

Doctor of Philosophy - Health Sciences

Program Fit: State/Regional/National Needs:

There is a great need for well-prepared faculty in a number of Health Science fields. For example, Physical Therapist who also possess terminal academic degrees in the discipline or related health areas are currently in short supply in the United States. Similarly Occupational Therapy Faculty vacancies are 110, and 54% of Nursing Schools report faculty vacancies. The field of Dietetics is moving to an entry-level master's degree, thus faculty with terminal degrees are needed for teaching. In Respiratory Therapy, the current accreditation recommendation is for faculty to hold a Master's degree, and in the Masters of Respiratory Therapy programs, it is recommended that faculty hold a Doctoral degree.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	24	31	25	29	16%
	# of Diverse Majors	3	5	6	7	17%
	SCH Taught	368	367	335	298	-11%
	% SCH Related to Online	%	13%	29%	18%	-37%
	% SCH Taught by FT Faculty	%	91%	60%	32%	-47%
	# Students Enrolled 2+ Terms	23	22	19	21	11%
Student	# Students Return from Prior Yr	17	22	19	24	26%
Progress	Course Passage Rate	100%	93%	95%	91%	-4%
	Primary Degrees Awarded In-Yr	0	7	1	5	400%

Doctor of Philosophy - Materials Science and Engineering

Program Fit: State/Regional/National Needs:

The YSU program in Materials Science and Engineering provides the local region and beyond with professional Ph.D. level materials scientists/engineers filling R&D positions in companies such as 3D Directions LLC, Penn State Shenango, ExOne, Nikola Motor Company, FormAlloy, Simon Roofing, Carlisle Brake and Friction and Idaho National Laboratory.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	15	13	12	13	8%
	# of Diverse Majors	9	7	7	9	29%
	SCH Taught	223	178	166	224	35%
	% SCH Related to Online	%	0%	0%	7%	-
	% SCH Taught by FT Faculty	93%	90%	89%	71%	-19%
	# Students Enrolled 2+ Terms	12	10	10	12	20%
Student	# Students Return from Prior Yr	12	10	9	9	0%
Progress	Course Passage Rate	100%	100%	78%	72%	-8%
	Primary Degrees Awarded In-Yr	4	4	1	0	-100%

Doctor of Physical Therapy

Program Fit: State/Regional/National Needs:

Remains a growing profession at 18% from 2019-2029, much higher than many other professions (US Bureau of Labor Statistics). This growth produces approx. 15,200 job openings annually across this decade. Currently there are job openings locally, throughout the State, and in the country.

Category: Continuous Quality Improvement

Category	Metric	2022	2023	2024	2025	YoY Change
Program Profile	# of Majors	126	128	124	115	-7%
	# of Diverse Majors	27	23	18	15	-17%
	SCH Taught	4,897	4,536	4,225	4,018	-5%
	% SCH Related to Online	6%	1%	5%	6%	22%
	% SCH Taught by FT Faculty	94%	89%	90%	87%	-3%
	# Students Enrolled 2+ Terms	125	126	121	114	-6%
Student	# Students Return from Prior Yr	81	88	82	75	-9%
Progress	Course Passage Rate	100%	99%	99%	100%	1%
	Primary Degrees Awarded In-Yr	35	43	43	35	-19%