Low-Enrollment Course and Program

and Duplicate Program

Report

2022

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Low-Enrollment Course and Program and Duplicate Program Report

Overview

Background

Section 3345.35 of the Ohio Revised Code requires that the boards of trustees of each state institution of higher education evaluate all courses and programs based on enrollment and duplication with other state institutions of higher education.

Section 3345.35

Not later than December 31, 2017, and by the first day of September of every fifth year thereafter, the board of trustees of each state institution of higher education, as defined in section 3345.011 of the Revised Code, shall evaluate all courses and programs the institution offers based on enrollment and duplication of its courses and programs with those of other state institutions of higher education within a geographic region, as determined by the chancellor of higher education. For courses and programs with low enrollment, as defined by the chancellor, the board of trustees shall provide a summary of recommended actions, including consideration of collaboration with other state institutions of higher education. For duplicative programs, as defined by the chancellor, the board of trustees shall evaluate the benefits of collaboration with other institutions of higher education to deliver the program.

Each board of trustees shall submit its findings under this section to the chancellor not later than thirty days after the completion of the evaluations or as part of submitting the annual efficiency report required pursuant to section 3333.95 of the Revised Code.

Reporting Requirements

To comply with the legislation, the Chancellor provides a definition of low-enrollment courses and programs and the Department of Higher Education provides a list of duplicative programs within each region of the state, with particular attention to co-located campuses.

The board of trustees of each state college and university must submit a report that includes:
- a description of the process and data used to identify courses and programs that meet the Chancellor's definition of low enrollments;
- a summary of recommended actions for each identified low enrollment course (e.g., no action, course elimination, reduction in the number of sections or the timing of sections, change in course delivery modality, targeted as a candidate for course sharing);

- a summary of recommended actions for each low enrollment program (e.g., no action, close program, merge with other programs in the institution, collaborate with other state institutions);
- for each duplicative program not targeted for action, a rationale for continuing the program in its current form; and
- for each duplicative program considered for action, the recommended action (e.g., close program, collaborate with other state institutions).

The reports shall be approved by the boards of trustees and submitted along with the board resolution by September 30, 2022.

Low-Enrollment Courses

Low-Enrollment Course Thresholds

In 2015, Wright State University established the following thresholds for the purpose of evaluating low-enrollment courses per section 3345.35 of the Revised Code (see Table 1).

Table 1. *Wright State University Course Enrollment Thresholds*

Course level	Number of students enrolled
7000, 8000, and 9000	5
3000, 4000, 5000, and 6000	10
1000 and 2000	20

To comply with the legislation, the Chancellor defined low-enrollment courses as course sections that fall below 20% above the institutionally-defined threshold for that course section over two or more semesters (see Appendix A). Table 2 displays the criteria used to define low-enrollment courses at Wright State University based on the Chancellor's definition of low-enrollment courses and Wright State's course enrollment thresholds.

Table 2. *Wright State University Low-Enrollment Course Definition*

Course level	Number of students enrolled
7000, 8000, and 9000	5 or less
3000, 4000, 5000, and 6000	11 or less
1000 and 2000	23 or less

Low-Enrollment Course Identification

Course section enrollments as of the first day (day one) of the fall and spring semesters over the last five academic years (2017-18 through 2021-22) were evaluated. The selection of course sections was limited to those offered in a lecture, lecture/lab combination, or lecture/recitation combination format at the Dayton, Ohio, or Celina, Ohio, (Lake) campus in either an in-person, online, or hybrid delivery mode. Courses taught at high schools were excluded. For cross-listed course sections, the total number of students enrolled in the cross-listed course sections as of day one were evaluated based on the low-enrollment definition for the minimum course level within the cross-listed course sections. Courses for which day-one enrollments met the definition of low-enrollment courses (see Table 2), over the last two semesters in which course sections were offered, were subject to review.

Table 3 displays the total number of courses and course sections reviewed for low enrollment and, of those, the total number determined to have met the Chancellor's definition of low enrollment.

Table 3. *Number of Courses and Sections Reviewed and Number Identified as Low Enrollment by Course Level*

Course level	Number reviewed		Number identified as low enrollment	
	Courses	Sections	Courses	Sections
1000	143	517	85	236
2000	272	868	139	349
3000	426	1,086	88	211
4000	448	1,038	129	276
5000	7	21	2	4
6000	97	223	39	83
7000	321	719	51	105
8000	54	122	9	19
9000	50	140	11	41
Total	1,818	4,734	553	1,324

Low-Enrollment Course Analysis

The provost and deans at Wright State University evaluated the low-enrollment courses and course sections identified in Table 3. To assist in evaluations, the ODHE provided guidance on the factors that should be considered when determining recommended actions for low-enrollment courses (see Appendix B).

Low-enrollment courses were evaluated for one of the following recommended actions:
- No action,
- Eliminate,
- Reduce the number of sections,
- Change timing of course offerings,
- Collaborate with other state institutions, or
- Other (please specify).

A total of 553 courses met the definition of low enrollment (see Table 3). Table 4 summarizes the number of recommended actions made for all low-enrollment courses.

Table 4. *Number of Low-Enrollment Courses by Recommended Action and Course Level*

Recommended action	Number of low-enrollment courses			
	1000-2000	3000-6000	7000-9000	Total
No action	128	100	38	266
Eliminate	21	58	14	93
Reduce the number of sections	42	47	11	100
Change timing of course offerings	5	14	0	19
Collaborate with other state institutions	0	6	0	6
Other	28	33	8	69
Total	224	258	71	553

In addition to making a recommendation for each low-enrollment course, the provost and deans provided the rationale for the recommended action (e.g., pedagogically appropriate course size, course needed for on-time graduation, low enrollment elective, etc.). Table 5 displays the recommended action for each low-enrollment course and rationale for the recommended action.

Table 5. *Recommended Action and Rationale by Low-Enrollment Course*

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
ABS7240	2	4.0	Eliminate.	Applied Behavioral Science (ABS) is merging with the Master of Public Administration (MPA) program. This course will not be needed.
ACC2070	2	17.5	No action.	One credit class. The low enrollment sections over the past two years are the once per year offering of an evening section for the program's night students.
ACC7430	2	1.5	Reduce the number of sections.	Taught as an independent study on this specific class material. No one was paid to teach these sections.
ACC7440	2	1.5	Reduce the number of sections.	Taught as an independent study on this specific class material. No one was paid to teach these sections.
ACC7810	3	2.3	No action.	Independent Study. No one is paid to teach these sections.
AES1210	4	11.5	No action.	Air Force ROTC classes are required for program completion (commissioning) and are offered in a specific order. Thus, they cannot be moved to other semesters/years of the program or eliminated. The instructors for the courses are not paid by the University and thus the small sections should not increase the burden on the University.
AES1230	4	8.0	No action.	
AES2210	3	6.0	No action.	
AES2230	4	2.8	No action.	
AES3310	3	5.0	No action.	
AES3330	3	4.7	No action.	
AES4310	3	7.0	No action.	
AES4330	4	4.8	No action.	
AFS3990	3	9.3	Reduce the number of sections.	This is a variable topics course. Some courses do better than others. We will offer it less often and only offer broadly appealing topics.
ARA1020	2	7.5	Other. We have eliminated the minor but will market the two years of language.	Arabic has been identified by the U.S. government as a critical need language, useful at the National Air and Space Intel Center (NASIC), which looks for trainability.
ARA2010	2	6.5	Other. We have eliminated the minor but will market the two years of language.	
ARA2020	2	5.5	Other. We have eliminated the minor but will market the two years of language.	
ARA3210	2	8.0	Eliminate.	Low enrollment.
ARA3980	2	1.5	Eliminate.	Low enrollment.
ASL1010	9	20.1	No action.	Class size has been increased from 15 to 20 and will be capped at 20 for pedagogical reasons. Students in American Sign Language (ASL) need to be able to clearly see the teacher at all times and the instructor needs to be able to see the hands of each of their students. Larger class sizes make this difficult. Additionally, being that ASL is a visual language, the one-on-one interaction is imperative. Course enrollment and section optimization procedures are in place. Going forward, Lake Campus will offer only 1 section per year.
ASL1020	6	17.0	No action.	
ASL2010	5	15.2	No action.	
ASL2020	5	16.6	No action.	
ATH4700	2	8.5	Reduce the number of sections.	A required theory course. In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how this course might also serve existing and new interdisciplinary programs.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
ATR3600	2	5.0	Eliminate.	No longer needed; was part of old Athletic Training (ATR) program.
ATR3610	2	5.5		
ATR3620	2	5.0		
ATR4610	2	3.5		
ATR4620	2	3.0		
ATR4630	2	4.0		
ATR4820	2	6.5		
ATR4840	2	5.5		
ATR4850	2	7.0		
AVI2001	2	6.5	Eliminate.	No longer taught.
BIO1060	2	8.5	No action.	Required for Integrated Science Studies (ISS) degree. Scheduling management for this course will be improved.
BIO3150	2	5.5		
BIO4010	2	7.5	Other. Advertise newly developed courses to increase interest in this course. Decrease the number of upper level electives to create enrollment efficiencies.	BIO 4010, Special Topics, allows faculty to offer newly developed courses while approval of a permanent course number and description is in progress.
BIO4110	2	8.5	Other. Recruit additional students to this course with new Ecology, Evolution and Organismal Biology (EEOB) concentration.	BIO 4110 is an approved elective for the newly approved Ecology, Evolution and Organismal Biology Concentration in the Biological Sciences, BS Program. Recruitment of students to this concentration is expected to improve enrollment in this course. BIO 4110 will continue to be offered every other year.
BIO4420	2	7.5	Other. Recruit additional students to this course with new Cell and Molecular Biology (CMB) concentration.	BIO 4420 is a departmental core requirement of the newly approved Cell and Molecular Biology Concentration of the Biological Sciences, BS Program. Recruitment of students to this concentration is expected to improve enrollment in this course. BIO 4420 will continue to be offered every other year unless and until enrollment justifies offering it every year.
BIO4700	2	5.5	Other. Recruit additional students to this course with new Ecology, Evolution and Organismal Biology (EEOB) concentration.	BIO 4700 is an approved elective for the newly approved Ecology, Evolution and Organismal Biology Concentration in the Biological Sciences, BS Program. Recruitment of students to this concentration is expected to improve enrollment in this course. BIO 4700 will continue to be offered every other year.
BIO4730	2	9.5	No action.	BIO 4730, Marine Biology, has a week-long field Biology Component. Enrollment is limited by the number of students who can be accommodated at and transported to the field site.
BIO6010	2	8.0	No action.	BIO 6010, Special Topics, allows instructors to offer newly developed courses for which curriculum approval is in progress. The low enrollment sections, Animal Behavior Field Study, is a field biology course. Enrollment is limited by the number of student that who can be accommodated at and transported to the field site.
BIO6020	2	7.0	Reduce the number of sections.	BIO 6020 is a course for which topic can vary by instructor and by year. Most sections of BIO 6020 were not listed as low enrollment courses. BIO 6020 offered in conjunction with BIO 4020, which is used by many of our undergraduates to satisfy Integrated Writing (IW) and capstones requirements needed for degree completion.

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Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
BMB1000	2	14.0	No action.	Biochemistry and Molecular Biology (BMB) is a major that requires early coursework in other departments, the freshmen year seminars (BMB 1000 and 1010) are vital for engagement and retention of students in our program. Note: All of the BMB courses listed are part of both the new BMB BS degree program and even newer BMB BS/MS 4+1 program. These courses (BMB 1000, 1010, 2000, 2100, 3030, 3850, 3900, 4020, 4444, 4700, 4750) are all required for the American Society of Biochemistry and Molecular Biology (ASBMB)-accredited BMB BS degree program. Thus, these courses are all essential for the BMB BS and BS/MS 4+1 program. We expect that as students choosing the BMB major continues to rise, that enrollment in these core courses will correspondingly increase. These courses are recent additions to Wright State's course offerings and purpose-built for these new programs.
BMB1010	2	9.0	No action.	
BMB2000	2	8.5	No action.	Biochemistry and Molecular Biology (BMB) is a major that requires early coursework in other departments, this sophomore course (fall semester) is important for retention of students in our program. [See Note for BMB1000 and BMB2000.)
BMB2100	2	4.0	No action.	This course is an introductory course meant to set our majors up for success when taking advance coursework in the junior and senior year. [See Note for BMB1000 and BMB2000.)
BMB3030	2	8.0	No action.	Provides important degree specific training in important aspects of ethical conduct of research. [See Note for BMB1000 and BMB2000.)
BMB3850	2	9.5	No action.	This represents the degree program's primary biochemistry laboratory course. [See Note for BMB1000 and BMB2000.)
BMB3900	2	8.5	No action.	Provides crucial intensive writing skills. [See Note for BMB1000 and BMB2000.)
BMB4020	2	10.5	No action.	BMB 4020 (1 credit) and 6020 (3 credits) meet together for the classroom portion (graduate students in 6020 perform additional research related studies). Therefore, Biochemistry and Molecular Biology (BMB) MS, BMB BS/MS 4+1, and BMB BS students take one or the other course. [See Note for BMB1000 and BMB2000.)
BMB4444	2	7.0	No action.	Essential elective for graduation. Further, we want to offer diverse course options because our majors have many future opportunities in the sciences and our electives need to reflect this. [See Note for BMB1000 and BMB2000.)
BMB4700	2	9.5		
BMB4750	2	7.0		
BME4350	2	4.5	No action.	This course has not been offered since Fall 2020. Course is cross-listed with ISE 4350/BME 6350/IHE 6350 (and a concurrent distance section 90 that was counted separately) and equal one course assignment.
BME4710	2	4.0	Reduce the number of sections.	Upper level elective, reduce offering frequency.
BME6350	2	3.5	No action.	This course has not been offered since Fall 2020. Course is cross-listed with ISE 4350/BME 6350/IHE 6350 (and a concurrent distance section 90 that was counted separately) and equal one course assignment.
BME7850	2	3.0	No action.	BME 7850 is cross-listed with IHE 7850 and also has a distance section, which was counted separately, and is considered one course. The enrollment number is not representative of the class size.
BME7980	2	4.0	No action.	This is a special topics course.
BMS9900	3	2.3	No action.	These courses do not figure into course load for faculty; students attend research seminars presented by internal faculty and external guest lecturers.
BMS9940	2	3.5	Eliminate.	Course is offered for orientation purposes, not academic content; not figured in teaching load.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
BMS9950	12	1.4	No action.	Courses reflect time spent in lab on independent research projects for pre-candidacy students; No formal coursework or academic content is presented; Does not count toward work load for faculty; Each course section is listed for a specific number of credit hours (equivalent to time in lab); For example, section 5 is listed for 5 credit hours; students take variable number of credits (sign up for varying sections) based on registration needs.
BMS9990	7	1.9	No action.	Courses reflect time spent in lab on independent research projects for the Biomedical Sciences (BMS) doctoral candidate students; No formal coursework or academic content is presented; Does not count toward work load for faculty; Each course section is listed for a specific number of credit hours (equivalent to time in lab); For example, section 5 is listed for 5 credit hours; students take variable number of credits (sign up for varying sections) based on registration needs.
CEG2170	2	7.5	Eliminate.	Recommending alternative course for degree completion.
CEG4510	2	6.0	Reduce the number of sections.	Offer less frequently.
CEG4520	2	8.5	Reduce the number of sections.	Offer less frequently - may improve with Data Science program.
CHI1010	2	20.5	Other. We have eliminated the minor but will market the two years of language.	Chinese has been identified by the U.S. government as a critical need language, useful at the National Air and Space Intel Center (NASIC), which looks for trainability.
CHI1020	2	11.0		
CHI2010	2	6.5		
CHI2020	2	4.0		
CHI2210	2	5.0	Eliminate.	Low enrollment.
CHI3110	2	5.0		
CHM1020	2	23.0	No action.	Required for Nursing degree.
CHM1050	2	22.5	No action.	Required for Integrated Science Studies (ISS) degree.
CHM2120	3	12.3		
CHM3460	2	2.0	Reduce the number of sections.	Already eliminated Spring offerings, only offered in Fall Semester. This is Concepts in Chemistry II for education majors, needs further discussion.
CHM3510	2	8.0	No action.	This is a major course, need to have small labs, separate section is for scheduling conflicts with other major courses, depends on students. Cap is 8 for laboratory.
CHM3520	2	7.5		
CHM3560	2	3.0	Eliminate.	No further demand and no faculty expertise.
CHM4020	2	7.5	Other. May combine with Bio water course in new Env Sci program.	This is a Service-Learning Course.
CHM4200	2	8.0	No action.	This is a major course, Inorganic Chemistry I, cross-listed with MS program.
CHM4210	2	5.0	No action.	This is a major course, Inorganic Chemistry II with lab, cross-listed with MS.
CHM4350	2	11.0	No action.	This is a major course, Instrumental analysis.
CHM4370	2	5.5	No action.	This is cross-listed with the MS program, Electroanalytical chemistry.
CHM4610	2	7.5	Reduce the number of sections.	This will only be taught every other year. This is cross-listed with the MS program, Synthetic polymer chemistry.
CHM4650	2	4.0	Reduce the number of sections.	This will only be taught every other year. This is cross-listed with the MS program, Physical polymer chemistry.
CHM4900	2	7.0	No action.	This is cross-listed with Chemistry MS, required course for major.
CHM4990	6	2.0	No action.	Undergraduate research, experiential learning with faculty in research.
CHM7010	2	3.5	Eliminate.	Turning Research into Thesis, course can be eliminated.
CHM7180	2	4.5	No action.	This is cross-listed with Chemistry MS, Environmental Sciences (ES) PhD core course.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
CNL6220	2	5.0	Eliminate.	
CNL7800	2	2.0	Eliminate.	
COM2560	2	6.5	Other. As part of reorganization, will work to combine course and restructure curriculum.	May offer the course less often or combine it with another.
COM4620	2	7.0		
COM4640	2	7.0		
CS1000	2	16.0	Reduce the number of sections.	Scheduling management for this course will be improved.
CS1010	2	15.5		
CS1030	2	16.0	No action.	The sections that are showing as low enrollment were honors sections. Enrollment has increased to sufficient levels to offer the course.
CS1200	2	9.0	Eliminate.	We no longer offer the course.
CS2900	3	12.3	No action.	Special topics – keep.
CS3260	2	8.5	Reduce the number of sections.	Offer less frequently.
CS7070	2	4.5		
CS7850	2	3.5	Reduce the number of sections.	Has not been offered since resignation of Prof. Keke Chen.
DAN1120	2	14.5	No action.	Required course. Must offer in sequence.
DAN2510	2	18.0		
DAN2520	2	16.0		
DAN3990	5	1.0	No action.	This is an independent study. No one is paid for it or offers it in-load.
DOS9030	2	4.0	No action.	This course is a core course required by the doctoral students in Organizational Studies.
EC2050	4	22.0	Reduce the number of sections.	Scheduling management for this course will be improved, including scheduling coordination between Lake Campus and Raj Soin College of Business.
EC2100	2	17.5	Reduce the number of sections.	Scheduling management for this course will be improved.
ECE4030	2	5.5	Eliminate.	Course no longer offered.
ED1020	2	1.0	Eliminate.	No plan to offer in the future.
ED1040	2	11.0		
ED1100	3	20.0	Reduce the number of sections	Will monitor enrollment and reduce frequency of offering to once per year if enrollment falls below threshold; Spring 2022 enrollment was 23 students. We will also discuss combining sections between the College of Health, Education, and Human Services and the Lake Campus.
ED2510	2	12.5	Eliminate.	Students required to take this course will have other options in their program.
ED4550	2	4.0	No action.	This is the one course unique to becoming a licensed world language teacher - a methods course on teaching Spanish/French/German/Latin, and is cross listed with ED 6770.
ED4590	2	9.5	Reduce the number of sections.	Course is cross-listed with ED 6800, so total enrollment is greater than 9.5 students. Some sections had been identified for specific majors. We will allow all students across programs to take all sections and will reduce sections as appropriate to meet enrollment targets. We will also coordinate between the College of Health, Education, and Human Services and the Lake Campus regarding the total number of sections.
ED6020	2	9.0	Reduce the number of sections.	This course is cross-listed with ED 4060. When combined this course is not low-enrollment. If the Fall 2022 numbers are low, we will offer less sections next fall.
ED6130	2	4.5	No action.	This is a Reading Recovery course. School districts share the cost of these courses.
ED6140	2	4.5		
ED6600	2	4.0	Eliminate.	This course has already been eliminated.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
ED6770	2	2.5	No action.	This is the one course unique to becoming a licensed world language teacher - a methods course on teaching Spanish/French/German/Latin, and is cross-listed with ED 4550.
ED6900	2	3.0	No action.	This has been used as a "continuing education" course for educational workshops.
EDL7710	2	5.0	No action.	This course is a required course for those in our master's program in Teacher Leader: Curriculum and Instruction.
EDL7730	2	2.0		
EDL8730	2	3.0	Eliminate.	This course is for those in the Principalship program which is being closed. We are only finishing up students who were already in the program. Admissions has been suspended. Once those students are done, this course will be terminated.
EDL9710	2	1.5	Eliminate.	This course is for those in the Superintendency program which is being closed. We are only finishing up students who were already in the program. Admissions has been suspended. Once those students are done, this course will be terminated.
EDL9870	2	3.5	Eliminate.	This course is for those in the Advanced Curriculum & Instruction program and the Superintendency license program which both are being closed. We are only finishing up students who were already in the program. Admissions has been suspended. Once those students are done, this course will be terminated.
EDS4090	2	4.0	No action.	This is a course for a Dyslexia Certificate. Enrollment is increasing in these courses given the State's focus on Dyslexia, and our pursuing of accreditation for the Dyslexia Certificate. This course is cross-listed with EDS 6090.
EDS4190	2	4.0	No action.	This is a course for a Dyslexia Certificate. Enrollment is increasing in these courses given the State's focus on Dyslexia, and our pursuing of accreditation for the Dyslexia Certificate.
EDS4670	2	6.5	No action.	Coordinate scheduling between the College of Health, Education, and Human Services and the Lake Campus. This is part of the Intervention Specialist program, and is cross-listed with EDS 6670 (20 students were enrolled for spring of 2022).
EDS6090	2	8.0	No action.	This is a course for a Dyslexia Certificate. Enrollment is increasing in these courses given the State's focus on Dyslexia, and our pursuing of accreditation for the Dyslexia Certificate. This course is cross-listed with EDS 4090.
EDS6120	2	9.5	Eliminate.	This course has already been eliminated.
EDS6190	2	7.0	No action.	This is a course for a Dyslexia Certificate. Enrollment is increasing in these courses given the State's focus on Dyslexia, and our pursuing of accreditation for the Dyslexia Certificate. This course is cross-listed with ED 4190.
EDS6200	2	8.5	No action.	This is a field experience course for the Master of Arts in World Languages program. "Instructor" is a supervisor that is paid separate from typical instructors.
EDS6240	2	3.0	Eliminate.	This course has already been eliminated.
EDS6400	2	6.0		
EDS6550	2	9.0	Eliminate.	This course is not in the Catalog.
EDS6670	2	6.5	No action.	This is part of the Intervention Specialist program, and is cross-listed with EDS 4670 (20 students were enrolled for spring of 2022).
EDS6690	2	4.5	No action.	This course is cross-listed with EDS 4690. There are 12 students currently scheduled to take this in the fall of 2022.

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
EDT6700	2	1.5	No action.	Keep this course. This is an independent study course that are only offered when needed. To keep enrollment high in our regular classes, we encourage students not to take independent study. However, there are situations when students must graduate, so we keep the course on the books for those situations. No instructor is paid for this independent study.
EE2010	3	10.3	No action.	Needed to complete Bachelor of Science in Electrical Engineering (BSEE) degree.
EE4000	2	6.0		
EE4420	2	5.0	Reduce the number of sections.	Upper level elective, reduce offering frequency
EE4460	2	4.0		
EE4730	2	5.5		
EE7200	2	3.0		
EE7350	2	3.5		
EE7480	2	4.0		
EE7560	2	3.5		
EES1030	3	16.7	Reduce the number of sections.	Scheduling management for this course will be improved.
EES1050	2	12.5	No action.	Required for Integrated Science Studies (ISS) degree. Major curricular redesign of previous Earth and Environmental Sciences (EES) major into an interdisciplinary Environmental Science undergraduate degree is also underway. The course offerings and enrollment patterns are expected to change significantly as a result.
EES2510	2	11.5		
EES2550	2	10.0		
EES3120	2	7.5		
EES3160	2	7.5		
EES3460	2	8.0		
EES3700	2	8.0	Eliminate.	Part of the Environmental Health Sciences (EHS) program, which has been discontinued.
EES4010	3	7.3	Other. Likely to be replaced with an ENV 4010.	This course # is a hold all for a new course being piloted before being formally added to Curriculog and sent through the approval process.
EES4200	2	9.5	No action.	Required for Integrated Science Studies (ISS) degree. Major curricular redesign of previous Earth and Environmental Sciences (EES) major into an interdisciplinary Environmental Science undergraduate degree is also underway. The course offerings and enrollment patterns are expected to change significantly as a result.
EES4210	2	10.0	Other. Needs to be considered for Environmental Science program.	This course is essential for geologists and a Core Elective for our Earth Science majors.
EES4220	2	3.5	Eliminate.	Our geophysicists will have retired by Spring 2023.
EES4290	2	5.5	Eliminate.	Instructor has retired. Students were encouraged by advisors to take geography's remote sensing course (which is not about science or non-artificial features or structures).
EES4340	2	5.0	Eliminate.	This course is essential for geologists and required for our Earth Science BS majors.
EES4370	2	4.0	Eliminate.	Our geophysicists will have retired by Spring 2023.
EES4430	2	5.5	Reduce the number of sections.	Could be offered every other year.
EES4540	2	3.5	Eliminate.	Instructor has retired.
EES4570	2	5.0	Other. Needs to be considered for Environmental Science program.	Should consider cross-listing with CHM to increase enrollment.
EES4590	2	10.5		
EES4610	2	1.0	Eliminate.	Our geophysicists will have retired by Spring 2023.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
EES4620	2	9.0		
EES4740	2	6.0	Eliminate.	Part of the Environmental Health Sciences (EHS) program, which has been discontinued.
EES4760	2	9.5		
EES6010	2	3.5	Other. Likely to be replaced with an ENV 6010.	This course number is a hold all for a new course being piloted before being formally added to Curriculog and sent through the approval process.
EES6150	2	4.5	Eliminate.	Part of the Earth Science - MST program, which has been discontinued
EES6780	2	4.0	Other. Needs to be considered for Environmental Science program.	Cross-list for EES 4780 Environmental Science Seminar
EES7480	2	1.5	Eliminate.	Instructor has retired.
EES7490	2	1.5		
EGR1980	2	20.0	Reduce the number of sections.	Upper level elective, reduce offering frequency.
EGR4980	3	5.0	No action.	Special topics course.
ENG1010	2	4.5	Eliminate.	Low enrollment.
ENG1030	2	8.5	No action.	This is an advanced writing English as a Second Language (ESL) course; students need a lot of attention, so class size needs to be small. It is cross-listed with ENG 1100.01.
ENG1100	6	13.8	Reduce the number of sections.	ENG 1100. Sect. 1 is an English as a Second Language (ESL) course; students benefit from small class size. Scheduling management for this course will be improved, including scheduling coordination between Lake Campus and the College of Liberal Arts.
ENG1140	3	20.7	No action.	The sections are full or very close to full.
ENG2100	10	18.1	Reduce the number of sections.	Scheduling management for this course will be improved, including scheduling coordination between Lake Campus and the College of Liberal Arts.
ENG2800	2	9.0	Change timing of course offerings.	The course is necessary for Creative Writing minors. Will only offer once a year. As a non-major elective, it draws from outside ENG.
ENG3010	2	8.5	Change timing of course offerings.	We won't offer it regularly anymore.
ENG3540	2	7.5	Reduce the number of sections.	Scheduling management for this course will be improved, including scheduling coordination between Lake Campus and the College of Liberal Arts.
ENG4780	2	8.0	Eliminate.	Low enrollment
ES7160	2	2.0	Reduce the number of sections.	This is one of four required core course options in the Environmental Sciences (ES) PhD program. It is infrequently taught, but should remain an option when students opt for the sort of statistical and data analytical training that is uniquely provided in this course.
FAS1010	2	19.5		
FAS2030	2	16.5	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
FAS2040	2	14.5		
FAS2060	2	4.0	Eliminate.	Course no longer offered.
FAS2610	2	17.0	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
FAS2690	2	17.5	No action.	Special topics course.
FAS2700	2	17.0	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
FAS2790	2	13.5		
FAS4300	2	2.0	Eliminate.	Course no longer offered.
FAS4790	2	5.5		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
FIN4020	2	9.5	Eliminate.	Move important content to FIN 4120.
FIN4120	2	10.5	No action.	Add content from FIN 4120 and make this course a requirement for the Financial Services Track in the Finance major.
FIN4130	2	10.0	Eliminate.	Insufficient enrollment and insufficient curricular need.
FIN4160	2	11.0	No action.	Make a requirement for the Financial Services Track in the Finance Major.
FIN4210	2	10.5	Eliminate.	Insufficient enrollment and insufficient curricular need.
FR1010	4	13.3	No action.	To better serve our students, we need to offer multiple sections (in different modalities, some in the day and some in the evening).
FR1020	3	13.0		
FR2010	2	13.5		
FR2020	3	13.3		
FR4650	2	10.5	Change timing of course offerings.	This is a required course, but we will try to offer it less often.
GEO2300	2	14.5	Reduce the number of sections.	Course has not been offered since 2018.
GEO3400	2	11.0	Change timing of course offerings.	We will offer this course less often
GEO4200	2	8.0	Other. We are working with other programs (in and out of the College of Liberal Arts) to encourage their majors to earn the Geographic Information Science (GIS) certificate.	This is a required course for the Geographic Information Science (GIS) certificate and the Geography (GEO) major. It is cross-listed with a grad section and combined, the sections usually pass the threshold.
GEO4440	2	9.5		
GEO4860	2	8.0	Change timing of course offerings.	We haven't offered this course in a while and don't plan to offer it in the near future.
GER1010	2	11.5	Reduce the number of sections.	We have already reduced the number of sections and eliminated the major.
GER1020	3	10.3		
GER2010	3	16.3		
GER2020	2	9.0		
GER3110	2	6.5	Eliminate.	After Fall 2022, we are no longer offering upper-level German or the major.
GER3120	2	5.5		
GER3210	2	3.5		
GER3310	2	5.5		
GER3510	2	3.0		
GER3610	2	3.5		
GER3980	2	1.0		
GER4030	4	3.3		
GR1010	2	10.5	Other. In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how these courses might also serve existing and new interdisciplinary programs.	Meets College of Liberal Arts language requirement.
GR1020	2	6.5		
HED2320	2	11.5	Eliminate.	Part of Public Health program that is being closed.

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
HED2330	2	14.0	No action.	Health and Physical Education (HPE) required course.
HED2850	2	6.0		
HED3350	2	7.0	No action.	Health and Physical Education (HPE) required course, Sports Sciences elective.
HED3760	2	3.0	Eliminate.	Part of Public Health program that is being closed.
HED3850	2	4.5	Collaborate with other state institutions.	Health and Physical Education (HPE) required course; We will explore collaboration with Central State.
HED4430	2	1.0	Eliminate.	Part of Public Health program that is being closed.
HED4850	2	4.5	Collaborate with other state institutions.	Health and Physical Education (HPE) required course; We will explore collaboration with Central State.
HPR2010	2	13.0	No action.	Health and Physical Education (HPE) required course, Sports Sciences elective.
HPR2020	2	9.5		
HPR2030	2	11.0		
HPR2040	2	5.0		
HPR3010	2	6.0	Eliminate.	This course was already eliminated.
HPR3030	2	6.5		
HPR3560	2	4.5	Collaborate with other state institutions.	Health and Physical Education (HPE) required course; We will explore collaboration with Central State.
HPR3850	2	4.5		
HPR4450	2	7.5		
HPR4850	2	4.5		
HST1100	3	16.3	Reduce the number of sections.	Scheduling management for this course will be improved including scheduling coordination between Lake Campus and the College of Liberal Arts.
HST1200	3	18.7		
HST3500	2	8.0	Other. These are variable topics courses. Will offer courses that have broader appeal.	Now that fewer courses being offered, there should be less competition between them and enrollments should increase
HST4450	2	11.0		
HST4500	2	7.5		
HST4800	2	7.5		
HST4830	3	5.0		
HUM7500	3	2.0	No action.	This is an independent study. No one is paid for it or offers it in-load.
IB4860	2	7.0	No action.	Required capstone course for the International Business major; Scheduling management for this course will be improved; Other program courses have sufficient enrollments.
IHE6510	4	8.3	No action.	The sections are combined and equal one course. All IHE 6xxx are cross-listed with ISE 4xxx and with a section 01, and a distance section 90 that was counted separately. Measured enrollment is not reflective of true class size.
IHE6711	2	8.0		
IHE6810	2	7.5		
IHE6820	4	10.3		
IHE7010	2	4.5	No action.	All IHE 7xxx include a section 01, and a distance section 90 that was counted separately. The sections are combined and equal one course. Measured enrollment is not reflective of true class size.
IHE7300	2	3.0		
IHE7340	2	4.5		
IHE7360	3	3.3		
IHE7510	2	3.0		
IHE7820	2	2.5		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
ISE2211	3	20.3	No action.	Needed at Lake Campus for the Bachelor of Science in Mechanical Engineering (BSME) program. Course was offered in Fall, Spring and Summer. It is currently offered Fall and Spring and has a distance section 90, which was counted separately, but would be considered one course. Spring 22 enrollment was 66 and Fall 21 enrollment was 38 all sections combined.
ISM8000	2	3.0	Other. Wright State is conducting a review of career development courses taught among its PhD programs to identify overlaps.	This is a core course in the Interdisciplinary Applied Sciences and Mathematics PhD program that is in its 8th year of operation. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The program has a robust recruitment and retention plan to increase the enrollment
ISM8010	2	2.0		
ISM8500	2	1.0	No action.	This is an elective special topics course taught as needed. It is vehicle to deliver advanced special topics and independent study material courses to Interdisciplinary Applied Science and Mathematics (IASM) graduate students.
IT1010	2	10.0	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
IT1210	4	10.8		
IT1220	3	12.7		
IT1300	4	16.0		
IT1400	4	14.5		
IT2010	3	14.0		
IT2200	2	21.5		
IT2210	2	15.0		
IT2240	2	13.0		
IT2300	2	17.0		
IT2320	2	18.0		
IT2500	2	11.0		
IT3410	2	7.5		
IT3450	2	8.5		
ITA1010	2	9.5	No action.	This is a required course, but only for some Music majors.
JPN3120	2	9.5	Eliminate.	We have no plans to offer upper-level Japanese.
KNH2530	2	18.5	No action.	Required course for all Kinesiology & Health (KNH) undergraduate programs. Enrollments expected to increase following enrollment growth in undergraduate programs.
KNH2600	2	21.5	No action.	This course is limited to 25 students due to American Red cross guidelines and equipment availability. Course is also required of Sports Science majors.
KNH4300	2	9.5	Eliminate.	This course has not been taught in a long time.
KNH7500	2	4.5	No action.	We will offer this course online next year to attract more students to the Physical Education, MA program.
KNH7600	2	3.0	Eliminate.	This course was already eliminated.
LAT1010	2	10.5	Other. In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how these courses might also serve existing and new interdisciplinary programs.	Meets CoLA language requirement and supports CEHS World Language (Latin licensure) Program.
LAT1020	2	4.5		
LAT2010	2	10.5		
LAT2020	2	9.5		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
LE1000	2	10.0		
LE1010	2	5.0		
LE1020	2	10.0		
LE1030	2	7.5		
LE1040	2	11.0		
LE1070	2	7.5	No action.	Required for Police Academy.
LE1100	2	9.5		
LE1110	2	9.5		
LE1120	2	9.5		
LE1130	2	8.5		
LE1140	2	8.5		
LE1150	2	8.5		
MBA5300	2	10.5	Reduce the number of sections.	Scheduling management for this course will be improved.
ME2120	2	18.0	No action.	Needed at Lake Campus for the Bachelor of Science in Mechanical Engineering (BSME) program. This is a required course for the BSME program. Offering sections at Lake give students at the Lake Campus a pathway to complete their degree in a timely manner. Enrollment is determined by student demographics in the Lake Campus region, and is not significantly below the established minimum of 20 students per section.
ME2210	2	20.5	No action.	Needed at Lake Campus for the Bachelor of Science in Mechanical Engineering (BSME) program. This is a required course for the BSME program. Offering sections at Lake give students at the Lake Campus a pathway to complete their degree in a timely manner. Enrollment is determined by student demographics in the Lake Campus region, and is above the established minimum of 20 students per section, though below the 23 required by the Chancellor
ME3750	2	9.5	No action.	This is a required course for the Bachelor of Science in Materials Science & Engineering (BSMSE) program and is offered once a year. Events such as the faculty strike in 2019 and the pandemic during 2020-2021 resulted in a drop in the numbers of students in the course. The 5xxx version of the course is a required remedial course for graduate students who are switching majors from other disciplines. This trend in decreased enrollment is expected to reverse in the upcoming years for both levels of this course.
ME3760	2	6.5		
ME4570	2	10.5	Reduce the number of sections.	This course is available to Bachelor of Science in Materials Science & Engineering (BSMSE), Master of Science in Materials Science & Engineering (MSMSE), and Master of Science in Renewable and Clean Energy Engineering (MS-RCEE) majors. Coupled with a decrease in the number of faculty in the Mechanical and Materials Engineering (MME) department, a reduction in the frequency of offering will improve course enrollment per section.
ME4750	2	6.5	No action.	This is a required lab course for the Bachelor of Science in Mechanical Engineering (BSME) program and is offered once a year. Events such as the faculty strike in 2019 and the pandemic during 2020-2021 resulted in a drop in the numbers of students in the course. This course, along with the graduate section make use of state-of-the-art equipment acquired just before the pandemic. Increased admission trends are expected to reverse enrollment trends in the upcoming years for both levels of this course.
MI7770	2	2.0	Other. Course revision underway.	Will be reoffered when ready.

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Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
MIL1010	4	9.0	Reduce the number of sections.	Reduce the amount of MIL 1010 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIL1020	3	11.7	Reduce the number of sections.	Reduce the amount of MIL 1020 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIL2010	3	10.0	Reduce the number of sections.	Reduce the amount of MIL 2010 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIL2020	3	9.3	Reduce the number of sections.	Reduce the amount of MIL 2020 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIL4010	2	9.0	Reduce the number of sections.	Reduce the amount of MIL 4010 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIL4020	2	8.5	Reduce the number of sections.	Reduce the amount of MIL 4020 course offerings to 1 per semester so as to compile all the students into one section which will eliminate low enrollment sections
MIS1150	2	16.5	No action.	Required course for the Management Information Systems major; Other program courses have sufficient enrollments.
MIS2150	2	17.0		
MIS4800	2	1.0	No action.	Independent Study. No one is paid to teach these sections.
MIS4950	2	10.0	Reduce the number of sections.	Required capstone course for the Management Information Systems major; Scheduling management for this course will be improved.
ML2020	2	16.0	Eliminate.	We are no longer offering the Chinese major
ML3990	2	5.0	No action.	This is sometimes offered as an independent study, which explains low enrollment (no one is paid for the course when an independent study).
ML5990	2	1.5	No action.	This is an independent study. No one is paid for it or offers it in-load.
MP1800	4	12.5	Reduce the number of sections.	This is a production course, which is hands on and requires a smaller class size. We will explore offering sections of the course less frequently.
MP2320	2	15.5	No action.	This is a required course. We can't offer it less often because it is a building block for others.
MP2810	2	14.5		
MP2820	2	13.5	No action.	This is a production course, so requires a smaller class size (cap should be 14).
MTH1280	3	16.7	Reduce the number of sections.	Scheduling management for this course will be improved.
MTH1350	4	15.0		
MTH2300	2	14.5		
MTH2310	2	7.0		
MTH2320	4	17.0	No action.	Only offered once per year. Required for Bachelor of Science in Mechanical Engineering (BSME) degree. Greater collaboration across campuses, with possible new modalities to accommodate serving both campuses with efficient offerings, is recommended.
MTH2330	2	11.5	Other.	Not offered at the moment. Redesign in process.
MTH2350	3	21.7	No action.	Only offered once per year. Required for Bachelor of Science in Mechanical Engineering (BSME) degree. Greater collaboration across campuses, with possible new modalities to accommodate serving both campuses with efficient offerings, is recommended.
MTH2410	4	18.0	Eliminate.	Course no longer offered. The three-course sequence (2410-2430-2450) was redesigned to a two-course sequence for more efficiencies: MTH 2415 and MTH 2435.
MTH2430	3	20.3		
MTH2450	4	17.3		
MTH2570	2	16.5	Other.	Computer Science Dept offers a similar class. Will work together for more efficiencies.

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Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
MTH2800	2	14.0	No action.	Core class required for the majors.
MTH3120	2	5.5	No action.	A new concentration for math major with high potential of growth.
MTH3430	2	9.0	Reduce the number of sections.	Required class for Math Education Concentration.
MTH4150	2	4.5	Reduce the number of sections.	
MTH4320	2	8.0	No action.	Required class for the majors and growth expected.
MTH4520	2	5.5		
MTH4550	2	10.5	No action.	Important class, especially for our new Data Science Concentration.
MTH4820	2	6.0	Other.	Will redesign the course together with the Applied Math Master's Program to attract more students.
MTH6150	2	10.0	Reduce the number of sections.	
MTH7310	2	4.5	Other.	Will redesign the course to attract more students.
MTH7320	2	3.0		
MUE2050	21	4.5	No action.	These are like independent studies. No one teaches this in-load.
MUE2460	2	8.5	No action.	This is only taught by adjuncts and paid for out of music fees.
MUE2490	2	5.5	Eliminate.	Eliminated.
MUE2680	2	13.5	Other. We just hired a new instructor who we believe will revitalize the program.	This will increase enrollment.
MUE2700	2	8.5	No action.	This is a community outreach course, an orchestra that includes community members who do not sign up for credit. It is good PR for Wright State.
MUE2930	2	18.0	Other. We just hired a new instructor who we believe will revitalize the program.	This will increase enrollment.
MUE2940	2	15.0		
MUE2990	2	14.0		
MUS1150	2	9.0	Other. We are considering restructuring theory courses and may combine some courses.	We only offer it in the Spring, but it is required.
MUS1310	2	7.0	Reduce the number of sections.	We offer it less often, but it must be a small class size because of hands on instruction.
MUS1550	4	15.5	No action.	There are only 18 pianos in the room.
MUS1560	4	13.3		
MUS2230	2	15.5	Reduce the number of sections.	It's a required course, but we're only offering one section a year.
MUS2260	2	8.0	No action.	We can't offer it every other year. It is required and must be offered one time a year for sequenced courses to work out.
MUS2270	2	15.0	No action.	It's only offered once a year now and we don't have enough instruments to teach more than 20.
MUS2310	2	17.5		
MUS2420	2	18.0	No action.	The class almost always fills at 50. The Honors sections were the ones that were low-enrolled and they're capped at 20.
MUS2610	2	8.0	No action.	It's required for accreditation. French pronunciation. Can't offer less often because of sequences, but we will look into combining it with existing language courses.
MUS2620	2	7.5	No action.	It's required for accreditation. German pronunciation. Can't offer less often because of sequences, but we will look into combining it with existing language courses.

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Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
MUS3420	2	3.0	Other. We are considering restructuring theory courses and may combine some courses.	This will increase enrollment.
MUS4140	2	7.0	No action.	It's cross-listed with a grad section. The numbers are better when combined.
MUS4160	2	5.5	No action.	We will offer every other year and cross-list with a grad section, but there are only so many pianos, so class size will always be limited.
MUS4200	2	8.0	No action.	This course is cross-listed with a grad section and is mostly for grad students. The numbers are better when combined.
MUS4460	2	9.5	Change timing of course offerings.	We're offering it once every other year. It's cross-listed with a grad section and is mostly for grad students.
MUS4510	2	3.5	Change timing of course offerings.	It's required but always under-enrolled. We are trying to offer it every other year.
MUS4520	2	5.0	Change timing of course offerings.	It is capped at 12 because requires individual attention. We are trying offering it every other year.
MUS4650	2	6.5	Change timing of course offerings.	It is necessary for accreditation and so we're trying cutting it back to just once a year.
NEU1020	2	17.5	No action.	NEU 1020 Is required for all Neuroscience (NEU) majors. The major has shown a steady growth in enrollment so the numbers are expected to grow.
NEU4500	2	6.5	Other. Investigating the possibility of merging this course with another course in Physiology and Neuroscience (PN) to create even more efficiency of course delivery across the BS and MS programs.	NEU 4500 was recently cross-listed with PN 6550 and is only one of three courses (total 9 credit hours) that are currently available to students to "double count" in their BS and MS programs as part of the new Combined Neuroscience, BS & Physiology and Neuroscience, MS 4+1 program.
NUR2124	2	10.5	Other. The alternative pathway program (APP) is not accepting new students. This course is part of that program and will be eliminated when the 3-year program begins and students have moved through the alternative pathway program.	When the 3-year program begins, the APP program will be eliminated.
NUR4860	2	8.0	Reduce the number of sections.	This RNBSN course is offered in 7-week sessions concurrent with NUR4870. The RNBSN courses had low enrollment over the past few years due to COVID; Nurses were working at bedside and not taking classes. This program needs increased marketing. We also started offering this course one time per year instead of twice per year. Faculty has designated this course as a dual enrollment option for MSN credit. We will explore an MOU with local agencies to fund targeted job readiness.
NUR4870	2	7.0	Reduce the number of sections.	This RNBSN course is offered in 7-week sessions concurrent with NUR4860. The RNBSN courses had low enrollment over the past few years due to COVID; Nurses were working at bedside and not taking classes. This program needs increased marketing. We also started offering this course one time per year instead of twice per year. We will explore an MOU with local agencies to fund targeted job readiness.

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Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
NUR4880	2	7.5	Reduce the number of sections.	This RNBSN course had low enrollment over the past few years due to COVID; Nurses were working at bedside and not taking classes. This program needs increased marketing. We also started offering this course one time per year instead of twice per year. We will explore an MOU with local agencies to fund targeted job readiness.
NUR7115	2	1.0	No action.	This is an independent study course; it is not in a program of study. Students take this with a faculty member of their choice if they need extra credits or have a desire to learn a specific skill or phenomena from a specific faculty member. It does not impact faculty workload as faculty are not paid for teaching this course.
NUR7731	2	2.5	No action.	This is a clinical course for the Neonatal Nurse Practitioner Program. It is agency funded for targeted job readiness.
NUR7733	2	2.0		
NUR7734	2	2.0		
NUR7735	2	3.5		
OIS1010	2	14.0	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
OIS1030	2	3.0		
OIS1040	2	7.5		
OIS1150	2	9.0	Eliminate.	Course no longer offered.
OIS1160	2	9.5	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
OIS1260	2	8.5		
OIS1280	2	6.0	Eliminate.	Course no longer offered.
OIS2120	2	7.0	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
OIS2150	2	4.5		
OIS2170	2	5.5	Eliminate.	Course no longer offered.
OIS2180	2	7.5	No action.	Only offered once per year. Required for Associate of Applied Business (AAB) degree.
OIS2200	2	9.0		
OL2010	3	20.0	Reduce the number of sections.	The Lake Campus will no longer offer the Organizational Leadership (OL) program.
OL3030	3	9.3		
OL3040	2	7.5		
PHL2040	2	16.5	No action.	Scheduling management for this course will be improved.
PHY1050	2	6.0	Reduce the number of sections.	Not offered in 2021-22. Wright State is undergoing the review of OT36 general education requirements. This course will be instrumental in crafting the science curriculum to meet 6 credit +1 lab requirement for non-STEM majors.
PHY2420	2	8.0	No action.	Modern Physics Course is a 3rd course in the calculus-based Physics sequence. This course is a foundational course for physics major curriculum. Airforce Nuclear Engineering MS program at the Air Force Institute of Technology (AFIT) routinely sends their incoming students to take this course at Wright State. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment.
PHY2450	3	8.3	Reduce the number of sections.	Course meets face-to-face only. Scheduling management for this course will be improved. This course has been combined with PHY2460

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
PHY2460	2	14.0	No action.	Wright State has recently combined the PHY2450 (Early Childhood Education) and PHY2460 (Middle Childhood Education) courses in response to reduced enrollment and to provide students with greater flexibility. The courses will be co-taught under the PHY2460 umbrella.
PHY3150	2	7.0	No action.	Instrumentation is an important course for physics majors that provides them with basics of experimental data acquisition and electronics. These skills are much valued by DoD and commercial employers and prepare our students for jobs outside academia. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY3300	2	5.5	Reduce the number of sections.	The Intro to Astrophysics is a special topics course that was taught to physics majors. The faculty who developed this course has left Wright State. The course is a valuable tool for recruitment as astronomy is popular topic among prospective physics majors. It will not be offered in the upcoming year, but can be a valuable option for major who need an elective.
PHY4400	2	4.0	Reduce the number of sections.	Introduction to nanoscience and nanotechnology is an elective course for physics majors. It is taught as needed. The course is a valuable tool for recruitment as nanotechnology is popular topic among prospective physics majors. It will not be offered in the upcoming year, but can be a valuable option for major who need an elective. It is especially important in the light of recent state initiatives aimed at semiconductor fabrication facility development.
PHY4500	2	5.5	No action.	Electricity and Magnetism 1 is a foundational course for physics major curriculum. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY4510	2	3.5	No action.	Electricity and Magnetism 2 is a foundational course for physics major curriculum. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY4600	3	3.0	No action.	Introduction to Quantum Mechanics 1 is a foundational course for physics major curriculum. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY4610	2	3.0	No action.	Introduction to Quantum Mechanics 2 is a foundational course for physics major curriculum. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY4630	2	4.0	Reduce the number of sections.	Solid State Physics is an elective course for physics majors. It is taught as needed. The course is a valuable tool for recruitment as solid state physics is popular topic among prospective physics majors. It will not be offered in the upcoming year, but can be a valuable option for major who need an elective. It is especially important in the light of recent state initiatives aimed at semiconductor fabrication facility development.
PHY4730	2	4.5	No action.	The Mathematical Physics course is cross-listed as a graduate PHY6730 and is taken by Physics MS students as well as physics students that are in 4+1 program. It is also a course taken by PhD students in the Interdisciplinary Applied Science and Mathematics (IASM) PhD program.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
PHY4800	2	8.5	No action.	We adjusted the offering of this course to be taught every other year. It is a foundational course for physics majors. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment.
PHY4830	2	7.0	No action.	Cross-listed as PHY6830 for graduate MS students. Statistical Mechanics is a foundational course for graduate physics majors. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment.
PHY6610	2	1.0	No action.	This course is cross-listed as a graduate version of the PHY4600 - Introduction to Quantum Mechanics. It is a foundational course for physics majors that is taken by incoming MS graduate students as remediation as well as teachers looking to be certified to teach College Credit Plus (CCP) courses at local high schools.
PHY6810	2	6.0	No action.	Cross-listed at PHY4810 as undergraduate version for advanced undergraduate physics majors. The graduate Electricity and Magnetism is a foundational course for physics graduate students. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment
PHY6990	2	1.5	Reduce the number of sections.	Special Topics in Physical Science for Teachers is an independent study course reserve for Master of Science in Teaching (MST) graduate students.
PHY7100	2	5.0	No action.	The graduate Quantum Mechanics 1 is a foundational course for physics graduate students. It is also taken by PhD students in Interdisciplinary Applied Science and Mathematics (IASM) program. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment.
PHY7110	2	5.0	No action.	The graduate Quantum Mechanics 2 is a foundational course for physics graduate students. It is also taken by PhD students in Interdisciplinary Applied Science and Mathematics (IASM) program. The recent drop in enrollment is associated with the overall drop in Wright State enrollment and COVID related issues. The department has a robust recruitment and retention plan to increase the enrollment.
PLS2000	3	15.7	Reduce the number of sections.	Scheduling management for this course will be improved including scheduling coordination between Lake Campus and the College of Liberal Arts. Dayton will offer fewer sections, but we are trying to appeal to students by offering them the option of online and an in-person section.
PLS2120	2	16.5		
PLS3440	2	6.0	No action.	Part of Police Academy.
PLS4310	2	7.5		
PLS4460	2	7.5	Eliminate.	We will no longer offer this course.
PPH2100	2	13.5	Reduce the number of sections.	This online course had three sections, allowing 35 students in each section, but was taught as one class. Effective Fall 2022, all sections will be combined into one section of 105 students each semester offered.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
PPH7420	2	3.5	No action.	This course, "Health Promotion Planning and Evaluation," is required for the Health Promotion and Education (HPE) concentration in the Master of Public Health (MPH) program. We had an uncharacteristically small cohort which impacted enrollment. We adjusted the schedule so that people outside the concentration could also take the course. Since then, we've seen slightly higher enrollments (Summer 2021=9, Summer 2022=6). The course has to be offered for this concentration, and is a requirement to sit for the certification exam. This concentration drives a lot of interest in the MPH program as it is a sought-after career option.
PPH7710	2	2.0	No action.	This course, "Global health," is currently inactive as interest waned because travel could not occur during the pandemic. The last offering was Fall 2021. We don't want to eliminate the course but rather continue it as inactive for now with the plan to retool and reactivate in the near future.
PSI9930	2	3.0	Eliminate.	Course deactivated in 2020. No longer being offered.
PSI9940	5	2.8	No action.	Applied Teaching course. Students register for this course to receive credit for serving as Teaching Assistants for another School of Professional Psychology (SOPP) course. No additional resources used for this course.
PSY1010	5	14.8	Reduce the number of sections.	Scheduling management for this course will be improved.
PSY2000	2	8.0		
PSY2530	2	19.5	Eliminate.	Not offered now. Was an evening 2000 level course taught by an adjunct. We are not offering it now.
PSY2610	2	12.5	Eliminate.	Suggest we don't offer in future. We don't need this anymore since we are revamping 3610 (Conditioning and Learning); 3610 is a core course.
PSY2830	2	19.5	Reduce the number of sections.	Scheduling management for this course will be improved.
PSY3000	2	4.5	Eliminate.	Not offered now. This was an experiment to see if we could improve student outcomes in 3010, but because of its low enrollment it wasn't serving the purpose we wanted.
PSY3100	2	8.0	Other. Enrollment is expected to increase due to changes made to graduate program recruiting.	Necessary prep for gaining entry into graduate school. Since there is a significant number of our students are interested in mental health related careers, we want to prepare our students. We are working to increase our enrollment in this. This course assists students in preparing for graduate school.
PSY3210	2	9.5	Reduce the number of sections.	Scheduling management for this course will be improved including scheduling coordination between Lake Campus and the College of Science and Mathematics. Recommend we continue offering. This is a core course supporting our Cognition and Perception (CAP) concentration, which is aligned with our BS degree and only one of the three Dayton campus sections is low enrollment.
PSY3230	2	7.5	No action.	Recommend we continue offering. Methods courses are required for our BS students. This methods course supports our Cognition and Perception (CAP) concentration which is most closely aligned with careers post bachelors at WPAFB.
PSY3600	2	7.5	Reduce the number of sections.	We can hold off on offering this for now. We have recently changed the name to be more attractive, but because we had low enrollment we haven't offered it. We think this is a growth area for us. We think we could create a methods course connected with this which might eventually replace cognition methods. This course also has potential for helping students transition into a career at WPAFB.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
PSY3730	2	8.5	Reduce the number of sections.	Recommend not offering it for now. For all our methods courses you must take the corresponding 3X10 course first and Perception tends to get relatively fewer students than our other 3X10 courses. So even fewer of those who take Perception would end up in Perception Methods.
PSY3930	2	10.0	No action.	Recommend to continue as is. Small class size necessary because of lab space. Necessary for Behavioral Neuroscience (BNS) concentration. Involves surgical procedures.
PSY9070	2	3.0	No action.	Recommend to continue as is. Required for graduation for PhD students.
PSY9075	2	4.5		
PTX6002	2	4.5	Other. Plan to increase enrollment.	Background: This course was created to assist students that lacked the background needed to start the Master of Science Pharmacology and Toxicology (PTX) program in the fall with their peers. Efforts to Populate: When the Clinical Trials Coordination (CTC) concentration was approved (2020) we knew the students we were recruiting lacked the rigorous science background (e.g. nursing vs biology) so this class was submitted as a requirement for that degree. Other: The Pharmacology & Toxicology is working on a Healthcare and Homeland Security (HCHS) MS degree. This course will be a required course for that degree. This will increase enrollment numbers.
PTX6003	2	6.5		
PTX7002	2	4.5	Reduce the number of sections.	Background: This course is a one-credit hour course, known as a journal club (JC), that follows the same format across all Pharmacology and Toxicology (PTX) programs: academic articles are examined and critically discussed, and students present. All of the PTX programs require two or more journal clubs in their respective areas (Clinical Trials Coordination, Clinical Investigation, Research Track, Leader/Admin track, Healthcare and Homeland Security). In many cases there is an increased specialization, such as pharmacogenomics, regulatory methods. This is the only course the student can take that is specialized based on their academic interest. Other: Look to merge some journal clubs to accommodate more than one specialty, e.g. Healthcare and Homeland Security (HCHS) JC for both MD/MS students and HCHS focused students. This will reduce the number of sections.
PTX7005	2	3.5	No action.	Background: This class is required for Clinical Investigation (MD/MS) students. Due to space and research restrictions at the Pharmacology Translational Unit (PTU), only five students a year are selected (by both PTX and Med. Ed admin). This Capstone course is akin to a thesis defense for the students in this concentration, but discuss their research in the PTU, not a thesis project. Additionally, they speak about publications, courses, and other experiences they had while a member of the department. No action. We cannot increase the number of students at this time.
PTX8000	3	4.0	No action.	Background: This is an independent study class and added to the semesters as needed. No action.
PTX8005	2	4.5	Other. Plan to increase enrollment.	Background: Three Chemical Biological Radiological Nuclear (CBRN) Defense classes make up a graduate-level certificate. The majority of the students come from military and government, and are not seeking an MS degree. This set of classes are taught by an adjunct faculty member whose salary is prorated when the courses have fewer than five students. Action: 1. This set of classes will be required when the Healthcare and Homeland Security degree is approved and this will increase population. 2. The department is in talks with three international entities to have their military/government officials do this program. 3. We have created an undergraduate set of courses that will be taught at the same time, but require different assignments, this will populate the classroom, utilizing the same professor and time.
PTX8006	2	4.0		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
PTX8061	2	5.0	Other. Plan to increase enrollment.	Background: The Six Sigma Green Belt and Black Belt were introduced into the curriculum in 2014 when the non-thesis was rebranded as a leader/admin degree (think MBA for scientists). What was a very unpopular track is now the most popular (upwards of 60 graduate students a year). In order to complete the courses with a certificate the students must complete projects (as deemed by Six Sigma international standards), and each belt requires the previous one to be completed. Black Belt (this course) requires the student to have a Six Sigma Green Belt, and fewer students make it to this level. Action: A new faculty member was brought on to teach the Six Sigma courses, we believe this change will encourage more students. There is a possibility to create a certificate program that requires both courses, in addition to others. By doing so we can increase enrollment. This has been a successful tactic with the Clinical Trials Coordination Certificate.
PTX8260	2	1.5	No action.	Background. This class is an Microbiology and Immunology (M&I) course that yields a much higher number of students. The course is cross-listed with PTX so our department receives any revenue obtained when our students register. In exchange, one PTX faculty is part of the team teaching the course. No action is needed, the course is from another department.
REL2050	2	17.5	Other. In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how these courses might also serve existing and new interdisciplinary programs.	This will increase enrollment.
REL3300	2	6.5	Reduce the number of sections.	This is a variable topics course; some do better than others and can plan accordingly.
RHB2010	2	14.5	Reduce the number of sections.	Offer this course once a year.
RHB2020	2	9.0		
RHB3010	2	8.0	Reduce the number of sections.	Already monitoring and reduced sections to once a year.
RHB3020	2	10.5		
RHB3610	2	6.0		
RHB3630	2	6.5		
RHB3650	2	5.5		
RHB3820	2	11.0		
RHB4070	2	7.5	Reduce the number of sections.	Offer course once per year.
RHB7000	2	3.0	Eliminate.	Program has been deactivated.
RHB7020	2	2.5		
RHB7070	2	3.0	No action.	This course will be available for the Addictions and Trauma-Informed certificates and will increase enrollment; limit one section per year.
RHB7200	2	2.0	Eliminate.	Program has been deactivated.
RHB7300	2	2.5	No action.	This course will be available for the Addictions and Trauma-Informed certificates and will increase enrollment; limit one section per year.
RST2610	2	15.0	No action.	Only offered every other year. Enrollment has increased with modality change.

(continued)

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
RST2810	3	15.0	Change timing of course offerings.	We will only offer one RST of any kind each Fall and Spring.
RST2910	2	23.0		
RST2920	2	9.5		
SAA4100	6	6.0	No action.	This is a Special Topics course not used often for which someone is rarely paid. Last, with no pay this course was designed to expose and enhance students' understanding of leadership within the Residence Life & Housing organization. They teach on various topics. They offer the course during multiple time blocks so they can have smaller numbers to encourage dialogue and participation. The enrollment has declined over the past couple of years because they offer fewer leadership opportunities within their organization. However, they expect their numbers to grow over the next few years. They have combined or canceled sections when enrollment is low. However, sometimes a specific section is needed to accommodate students' schedules. In addition, their master-level professionals are required to teach this course. No extra pay involved.
SAA6651	2	6.0	No action.	This course is not currently offered, but may be offered in the future as part of study abroad programs. It was part of an International Focus area for one of our master's program.
SAA6660	2	5.5	No action.	This is a required course to meet the Council for the Advancement of Standards for our master's program in Student Affairs in Higher Education. The course is part of a focus area (Career/Advising) for the students. The enrollment in this course is now going up because the students were able to choose between five focus areas but now can only choose between two with the Career/Advising area being one of them which this course is a part of. Non-majors can also take this course. With the elimination of three other focus areas, enrollment in the Career/Advising focus area courses which includes this course is going up.
SAA6670	2	6.0		
SAA6680	2	7.5		
SAA7530	2	3.0	No action.	This course is not being offered at the present time, but may be offered in the future
SLI3000	2	7.0	No action.	SLI courses are all on a 2-year rotation; each course is only offered once a year; specialized program.
SLI4200	2	10.0		
SLI4540	2	8.5		
SLI4550	2	7.0		
SLI4560	2	7.5		
SLI4570	2	10.0		
SLI4900	2	4.0		
SM2100	3	11.0	Other. Advertise more broadly to include students interested in research beyond current audience of Applying Student Knowledge (ASK) students.	This course is required of students enrolled in the National Science Foundation (NSF)-funded ASK program. Could be opened to anyone in the College of Science and Mathematics (CoSM) beyond just ASK students.
SOC2200	2	8.0	Change timing of course offerings.	We will not offer this course again in the foreseeable future.
SOC3230	4	4.0	Eliminate.	It was eliminated years ago.
SOC3240	5	1.6		
SOC3410	2	5.0	Reduce the number of sections.	Scheduling management for this course will be improved including scheduling coordination between Lake Campus and the College of Liberal Arts.
SOC4090	2	10.0	Change timing of course offerings.	This is a variable topics course and some courses have done better than others. We will offer this less often and only topics with broad appeal.
SOC4091	2	6.0		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
SPN1020	4	14.3	No action.	To better serve our students, we need to offer multiple sections (in different modalities, some in the day and some in the evening).
SPN2010	5	13.8		
SPN2020	4	11.3		
SPN2110	2	14.5	Other. In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how these courses might also serve existing and new interdisciplinary programs.	This will increase enrollment.
SPN3120	2	8.5	Change timing of course offerings.	Not planning to offer in the foreseeable future.
SPN3220	2	6.0	Change timing of course offerings.	A required course. We will offer it less often (every other year).
SPN3310	2	8.5	Change timing of course offerings.	A required course that we will revitalize to appeal to students.
SPN3320	2	8.5	No action.	To better serve our students, we need to offer multiple sections (in different modalities, some in the day and some in the evening).
SPN3810	2	1.0	No action.	This is an independent study. No one is paid for it or offers it in-load.
SRV2000	2	5.5	Other. Revisit service-learning course offerings.	Last offered in Fall 2018.
STT1600	3	20.0	Reduce the number of sections.	Scheduling management for this course will be improved.
STT4620	2	8.0	Reduce the number of sections.	An important elective class for undergraduate program.
STT7620	2	3.5	Reduce the number of sections.	Required class for master's program in statistics.
SW2710	2	17.0	No action.	Social Work (SW) is accredited by the Council on Social Work Education (CSWE). This course is a required course for all Bachelor of Arts in Social Work (BASW) students. Enrollment should go up as we near the school year.
SW6450	2	6.0	No action.	Required course for the gerontology specialization and for the certificate in gerontology. Will engage in additional marketing of course and will explore inter-professional education certificate to increase enrollment.
SW6890	3	7.3	Other. Monitor enrollment and cancel if low enrollment.	Topics covered in this course vary by section. One section is well enrolled, the second section is below threshold and will be cancelled if not above low-enrollment threshold.
TEG2910	2	3.0	No action.	Classes offered through Business Enterprise Center (BEC) - opportunity for growth.
TEG2920	2	2.5		
TEG2930	2	2.0		
TEG2940	2	1.0		
TEG2950	2	1.0		
TH1200	4	15.3	No action.	This course has a low cap and must be small sized because it is hands on and requires individual attention. It nearly fills as is, given its cap (12).
TH1440	4	14.0	No action.	This class has a low cap and must be small sized because it requires individual attention. It nearly fills as is, given its cap.
TH1450	4	14.0		
TH1470	4	15.3		
TH1480	4	10.5		

Course	Number of low-enrollment sections	Average enrollment	Recommendation	Rationale
TH1510	2	7.0	No action.	Course is required for all Design/Tech majors and only offered every other year.
TH2020	2	6.0	Other. We will reduce the number of required courses by combining content to increase enrollment.	A required course for Sound Design majors, Stage Managers, and Technical Directors.
TH2140	2	16.5	No action.	Scheduling management for this course will be improved.
TH2190	2	5.0	Other. We will reduce the number of required courses by combining content to increase enrollment.	It is a required course that must be offered once a year.
TH2200	2	7.5	Eliminate.	No longer taught.
TH2260	2	8.0	No action.	There is a low cap on this course because it requires individualized attention.
TH2440	4	15.0		
TH2450	2	14.5		
TH2540	4	14.8	Reduce the number of sections.	This will increase enrollment.
TH2550	4	14.5		
TH3190	2	4.0	Change timing of course offerings.	Only lighting designers take this course, so will try to offer only when a critical need.
TH3210	2	10.0	No action.	There is a low cap on this course because it requires individualized attention.
TH3250	2	6.5	Other. Planned curricular changes will increase enrollment of majors in this course.	It is a required course that must be offered once a year.
TH3320	2	6.0	Other. Planned curricular changes will increase enrollment of majors in this course.	Combining the content of two courses into one (when it is pedagogically sound) is cost-effective.
TH3330	2	6.0		
TH3510	2	7.5	Other. Planned curricular changes will increase enrollment of majors in this course.	There needs to be a cap of 10 on this course because it requires individualized attention.
TH3520	2	5.5	Eliminate.	No longer taught.
TH3990	25	1.6	No action.	This is an independent study. No one is paid for it or offers it in-load.
TMG2800	2	9.0	No action.	Classes offered through Business Enterprise Center (BEC) - opportunity for growth.
URS3000	2	10.5	Eliminate.	Urban Affairs (URS) major and minor have been terminated.
URS4900	3	3.3		
URS7220	2	1.0	No action.	This is a directed study (like a thesis) for the Master of Public Administration (MPA).
UVC1000	5	6.0	Reduce the number of sections.	UVC 1000 Learning Strategies is used for students on probation and taught as part of load by success coaches. UVC 1000 How to College series was introduced with COVID funding under the program called Launch Pad and will be eliminated. Alternative summer bridge programs should be considered.
WGS3000	2	3.5	Other. We will pursue cross-listing this course with other programs to increase enrollment.	In light of the reorganization and the loss of faculty, the curriculum committee will discuss ideas for rejuvenating the program, including how these courses might also serve existing and new interdisciplinary programs.
WGS4500	2	6.5		
WGS4900	2	2.0	No action.	This is an experiential learning course. No one is paid to teach it or offers it on-load.

Low-Enrollment Programs

Low-Enrollment Program Thresholds

In 2015, Wright State University established the following thresholds for the purpose of evaluating low-enrollment programs per section 3345.35 of the Revised Code (see Table 6).

Table 6. *Wright State University Program Thresholds*

Award level	Average number of degrees awarded per year
Doctoral degree	4
Master's degree	8
Bachelor's and associate degrees	12

To comply with the legislation, the Chancellor defined low-enrollment programs as programs that fall below 20% above the institutionally-defined criteria for students in a program (see Appendix A). Table 7 displays the criteria used to define low-enrollment programs at Wright State University based on the Chancellor's definition of low-enrollment programs and Wright State's program thresholds.

Table 7. *Wright State University Low-Enrollment Program Definition*

Award level	Average number of degrees awarded per year
Doctoral degree	4 or less
Master's degree	9 or less
Bachelor's and associate degrees	14 or less

Low-Enrollment Program Identification

Programs are uniquely identified by award level, as reported to the Integrated Postsecondary Education Data System (IPEDS), and major (e.g., baccalaureate degree in Accounting). The selection of programs was limited to associate, baccalaureate, master's, and doctoral degree programs offered at Wright State University's Dayton, Ohio, and Celina, Ohio, (Lake) campuses as of spring semester 2022. Identical programs offered at both the Dayton and Lake campuses were evaluated independently. Degrees awarded by program over the last five academic years (2016-17 through 2020-21) were evaluated. Programs for which the five-year average of degrees awarded met the definition of low-enrollment programs (see Table 7) were subject to review.

Table 8 displays the total number of programs reviewed and, of those, the total number of programs determined to have met the Chancellor's definition of low enrollment.

Table 8. *Number of Programs Reviewed and Number Identified as Low Enrollment by Award Level*

Award level	Number reviewed	Number identified as low enrollment
Associate degree	14	13
Bachelor's degree	94	51
Master's degree	66	35
Doctoral degree	12	6
Total	186	105

Low-Enrollment Program Analysis

The provost and deans at Wright State University evaluated the low-enrollment programs identified in Table 8. To assist in evaluations, the ODHE provided guidance on the factors that should be considered when determining recommended actions for low-enrollment programs (see Appendix B).

Low-enrollment programs were evaluated for one of the following recommended actions:
- No action,
- Eliminate,
- Merge with other programs in the institution,
- Collaborate with other state institutions, or
- Other (please specify).

A total of 105 programs met the definition of low enrollment (see Table 8). Table 9 summarizes the number of recommended actions made for all low-enrollment programs.

Table 9. *Number of Low-Enrollment Programs by Recommended Action*

Recommended action	Number of programs
No action	50
Eliminate	18
Merge with other programs in the institution	14
Collaborate with other state institutions	0
Other	23
Total	105

In addition to making a recommendation for each low-enrollment program, the provost and deans provided the rationale for the recommended action (e.g., area of institutional specialty, etc.). Table 10 displays the recommended action for each low-enrollment program and rationale for the recommended action.

Table 10. *Recommended Action and Rationale by Low-Enrollment Program*

Program	Number of graduates (5-year average)	Recommendation	Rationale
Aerospace Medicine, Master's degree	3.6	Eliminate.	This program has been inactive since 2018. The Aerospace Medicine (ASM) Certificate, completed within the Master of Public Health (MPH) program, was created using 4 of the courses from this program. The MPH with the ASM certificate is completed by physicians in the USAF Residency in Aerospace Medicine (RAM) program.
Aerospace Systems Engineering, Master's degree	0.4	No action.	This program was set up with higher admission standards than the other MS degree programs in the Mechanical and Materials Engineering department in order to enroll academically stronger students. The program of study is based on courses that are being taught regularly in the College of Engineering and Computer Science (CECS), and can continue with no additional burden in terms of faculty load.
African + African/Amer Studies, Bachelor's degree	1.0	Other. We will step up recruitment for the program and consider administrative changes to promote greater cross-collaboration with other programs that make a major contribution to Diversity, Equity, and Inclusion, including Women Gender and Sexuality Studies. A potential incorporation into a broader interdisciplinary program within the framework of a reform of the current Liberal Studies major will be considered.	This is an interdisciplinary major composed almost entirely of courses housed in other majors and taught by faculty from their respective units. There are no faculty positions assigned to this major, so there are minimal costs associated with it. Given the increasing importance of Diversity, Equity, and Inclusion and the need to recruit students from underserved, underrepresented, and marginalized demographics, we believe that this program should continue to be offered but within a framework that better promotes the learning outcomes associated with it to potential students.
Anthropology, Bachelor's degree	9.6	Other. Establish collaborations between Geography, Anthropology, Sociology, and Crime and Justice Studies.	Collaboration between Geography, Anthropology, Sociology, and Crime and Justice Studies offers the opportunity for students in all fields to acquire additional competencies that will better prepare them for successful careers. It should be noted that jobs mapped to Anthropology, Geography, Sociology, and Criminology are all classified as in-demand in the Ohio Means Jobs list.
Applied Behavioral Science, Master's degree	9.4	Merge with other programs in the institution.	This program has already been merged with the Master of Public Administration (MPA) prior to this review and will become one concentration in the MPA focusing on crime and justice studies.
Applied Business Technologies, Associate's degree (Lake Campus)	3.0	No action.	This degree feeds into the Bachelor of Technical and Applied Studies (BTAS) degree. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Applied Mathematics, Master's degree	2.2	Merge with other programs in the institution.	Will explore the possibility of merging this program with MS in mathematics program as they share a number of classes and follow a similar track of study.
Applied Statistics, Master's degree	7.0	No action.	High potential program. Drop in enrollment is due to changes in international student enrollments. Advertising and industry partnerships will be explored to grow the program.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Art History, Bachelor's degree	2.2	Merge with other programs in the institution.	Collaboration between Classics, Religion, Philosophy, and Art History, as well as other departments, will allow students a broader exposure and engagement to the study of culture. Faculty will propose an interdisciplinary major that includes all of these fields and prepares students for a variety of professions and graduate programs.
Bio Sci: Environmental Sciences, Master's degree	0.0	Other. Keep on books until the Earth and Environmental Master's degree revision is complete. Eliminate if not used in that transition.	This program has not been active (despite being listed as such) for several years. With the dissolution of the Department of Earth and Environmental Sciences (EES), the disposition of the EES MS program is in flux. Until this is resolved, this program should be retained as a possible vehicle for the continuation of the EES MS program. If not needed for this purpose, then this program will be removed from the catalog.
Biochem + Molecular Biology, Bachelor's degree	4.4	No action.	This is a new undergraduate degree program that is experiencing growth each year. It serves an important regional need for students pursing medical, industrial, and academic careers needing a Biochemistry and Molecular Biology (BMB) background. The preliminary enrollment data for Fall 2022 indicates that the trend of consecutively larger freshman classes will continue. Also, note that the actual 5-year average number of graduates is 7.33 not 4.4 (the program has been in existence for only three years). We expect the trend of increased enrollment will continue as we come out of the effects of the pandemic. Further, the BMB BS degree program recently changed (2021) math and physics requirements to help remove barrier courses (but still staying within degree accreditation requirements) and improve retention. Our new BS/MS 4+1 program may also aid in recruiting more students.
Biochem + Molecular Biology, Master's degree	5.6	Other. Implement efforts to increase enrollment: (a) use new Biochemistry and Molecular Biology (BMB) BS/MS 4+1 program for recruiting and (b) implement a course work only version of the degree.	There has been a significant increase in graduates since the last report. The program serves as an important supply of trained researchers in Biochemistry and Molecular Biology (BMB) to the area. Graduates of the program find immediate employment for government (e.g., WPAFB), industry, university labs or admission to graduate programs due to substantial training gained in their thesis research. Enrollment appears to have been adversely affected by pandemic, we expect improved recruitment in the near future. Further, recruiting our undergraduate students into the new BMB BS/MS 4+1 program is expected to enhance enrollment. We may also consider recruitment tactics to increase number of students in the course-work only version of MS degree with modifications to enhance research experience. Note that all courses taken by MS students are cross-listed with either the Biomedical Sciences (BMS) PhD Program or the BMB BS program.
Biological Sciences, Associate's degree (Lake Campus)	1.6	No action.	Shared courses between associate and bachelor's degrees. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Business & Administration, Associate's degree (Lake Campus)	8.8	No action.	This degree feeds into the general business degree. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of the associate degrees for students who have stopped out prior to receiving their bachelor's degree.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Chem: Environmental Sciences, Master's degree	0.0	Other. Keep on books until the Earth and Environmental Master's degree revision is complete. Eliminate if not used in that transition.	This program has not been active (despite being listed as such) for several years. With the dissolution of the Department of Earth and Environmental Sciences (EES), the disposition of the EES MS program is in flux. Until this is resolved, this program should be retained as a possible vehicle for the continuation of the EES MS program. If not needed for this purpose, then this program will be removed from the catalog.
Chemistry, Associate's degree (Lake Campus)	0.8	No action.	Shared courses between associate and bachelor's degrees. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of the associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Chemistry, Master's degree	9.0	Other. Implement curricular innovations in chemistry programs to increase enrollment.	Several directions of curricular innovation are being considered: green chemistry, cannabis quality control certificate, among others. These changes are targeting program growth so increased enrollment and retention is anticipated.
Classical Languages & Cultures, Bachelor's degree	2.6	Merge with other programs in the institution.	The study of history, literature, and culture of ancient Greece and Rome is foundational to the liberal arts. Classics is also interdisciplinary by design, incorporating history, literature, art, religion, philosophy and political theory, as well as language study. We propose enhancing the support Classics currently provides to existing College of Liberal Arts programs, as well as incorporating it into a new interdisciplinary program. This new program will merge the Classics program with Philosophy, Comparative Religion, and Art History and utilize courses from a variety of other liberal arts programs to make these disciplines more visible and to make them sustainable over the long term, so that they can continue to play the essential role they have always played in a liberal arts education.
Classroom Teacher, Master's degree	1.8	Eliminate.	This program is no longer active.
Communication, Associate's degree (Lake Campus)	0.6	Eliminate.	Deactivated.
Communication Studies, Associate's degree (Lake Campus)	0.8	No action.	Potential for growth. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of the associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Comparative Religion, Bachelor's degree	1.8	Merge with other programs in the institution.	The understanding of world religions, religious value systems, and the influence of religion on human behavior is central to a liberal arts education. Religious studies is also interdisciplinary by design, incorporating history, philosophy, anthropology, sociology, classics, and political theory, and intersecting with gender and race in important ways. We propose enhancing the support Comparative Religion currently provides to existing CoLA programs, as well as incorporating it into a new interdisciplinary program. This new program will merge the Comparative Religion program with Philosophy, Classics, and Art History and utilize courses from a variety of other liberal arts programs, to make these disciplines more visible and to make them sustainable over the long term so that they can continue to play the essential role they have always played in a liberal arts education.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Crime and Justice Studies, Bachelor's degree (Lake Campus)	4.6	No action.	Shared courses with the Policy Academy.
Cyber Security, Master's degree	8.2	No action.	The program enrollment has grown to 25. Given strong job demand in the field, further growth is expected.
Dance, Bachelor's degree	7.2	Other. Enhance recruitment and reform curriculum to make it more appealing to underrepresented, marginalized, underserved student demographics.	The COVID19 pandemic had a severe negative impact on recruitment for the dance program due to suspension of in person instruction in high schools and on campus for a period of time. We are in the process of hiring a new dance instructor who will contribute to recruitment and community outreach; this individual has very strong ties to local arts schools and organizations as well as at the national level. In addition, the new instructor will assist in bringing greater diversity, equity, and inclusion to the dance curriculum.
Design/Technology, Bachelor's degree	7.6	Other. Increase recruiting and retention efforts.	The COVID19 pandemic had a severe negative impact on recruitment for the Design/Technology program due to suspension of in person instruction in high schools and on campus for a period of time. Design/Technology is crucial to offering a theater program of any kind, and specifically, public performances that benefit the community and allow students to build their professional portfolios. We intend to rebuild by stepping up recruiting and implementing a major curriculum reform that will consolidate concentrations and allow fewer classes to be taught, thus increasing class size and reducing low-enrolled courses.
Earth & Environmental Sciences, Associate's degree (Lake Campus)	1.0	No action.	Shared courses between associate and bachelor's degrees. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Earth & Environmental Sciences, Master's degree	7.2	Eliminate.	With the elimination of the Earth and Environmental Sciences (EES) department this program is targeted to be discontinued and a revised version created to fit in the new interdisciplinary Environmental Science framework.
Earth Sciences, Master's degree	5.6	Eliminate.	Master of Science in Teaching (MST) program; Deactivated Fall 2021; Last student graduated Spring 2022.
Economics, Bachelor's degree	3.8	Other. Move this program to a different college and refocus its curriculum to meet the needs of an emerging cohort of students – those who wish to pursue a business or administrative career in the business school without the full curriculum of an Association to Advance Collegiate Schools of Business (AACSB) Accredited business degree.	The program recently moved (from the College of Liberal Arts) to Raj Soin College of business which offers most of the program's courses. In the two months since this event, the program's enrollments have already increased from 12 students to 22 students. The program curriculum will be modified so that it becomes a good degree completion option for students who struggle to complete the BS in Business degree programs; The modified program will also become an excellent degree completion program option for transfer students who have significant credit hours earned that are not relevant to the BS in Business degree program, but will be applied to this BA in Economics program; There are no courses that are unique to this program, none of which suffer from low enrollment problems.
Education Specialist, Doctoral degree (other)	3.6	Eliminate.	We no longer have this program. It was closed and thus admissions suspended. We only have a few students who are finishing up.

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Program	Number of graduates (5-year average)	Recommendation	Rationale
Educational Studies, Bachelor's degree	0.0	No action.	This degree is utilized by students who want to complete an education degree but do not wish to be a licensed teacher. This option is typically used by students who decide not to student teach and are in the last semester of their program. There are no courses unique to this program. This program provides students an opportunity to earn a degree rather than stopping out.
Educational Studies, Master's degree	0.2		
Egr Innov and Entrprnship, Master's degree	3.2	Other. This program has been suspended since 2020 due to lack of resources and low enrollment.	A note regarding this was sent to Graduate School and Provost's office. Will take action in Curriculog to suspend in the fall.
Electrical & Computer Egr Tech, Bachelor's degree	0.2	No action.	Just started in 2017-18, first recruitment cycle for fall 2018.
Electrical Engineering, Doctoral degree (research/scholarship)	4.0	No action.	Just started in 2016, key regional need.
Engineering, Bachelor's degree	0.0	Eliminate.	
Engineering Physics, Bachelor's degree	0.0	Other. Currently suspended.	Physics has expressed interest in transitioning it to an Applied Physics degree.
English, Bachelor's degree (Lake Campus)	1.4	No action.	Shared courses with multiple degrees and potential for growth. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of the associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Entrepreneurship, Bachelor's degree	2.8	No action.	Program began in 2018; Numbers of graduates is growing; Interdisciplinary program in which nearly all program courses are already offered as requirements or electives in other programs, none of which suffer from low enrollment problems.
Environmental Sciences, Doctoral degree (research/scholarship)	3.6	Other. Determine feasibility and stability of the program with current funding model. The program will play an important role in the new interdisciplinary Environmental Science framework which can be leveraged to increase support and enrollment.	This program is an interdisciplinary niche program that has unique strengths relative to other programs at sister institutions in the state. The current five-year graduation rate is very similar to the program's average graduation rate since it produced its first graduates in 2008, thus it has been stable. Financial constraints and faculty losses through departures and retirements has impacted the size of the classes that could be admitted in recent years, however, so creative ways of attracting and supporting students, partly through partnerships with institutions like Wright Patterson Air Force Base, will need further exploration.
Exceptionalities, Master's degree	0.4	No action.	This program overlaps with the Intervention Specialist Master's Degree, but has fewer requirements - as it does not lead to licensure. So, students who already have a teaching license enroll in this program. No courses are unique to this program.
Financial Services, Bachelor's degree	12.2	Merge with other programs in the institution.	This program will merge with the Finance Major with the Investments Track becoming a Financial Services Track; The merged programs will improve the department's operational efficiency and improve the popularity of Financial Services as a field of study. The program generates high numbers of Certified Financial Planners, forming an important link to the financial services industry that improves employment opportunities for all finance majors, justifying its continuation as a track.

Program	Number of graduates (5-year average)	Recommendation	Rationale
French, Bachelor's degree	10.2	Merge with other programs in the institution.	The Modern Language Associate has provided models for integrated foreign language majors. We recommend a single major for students of all languages that allows for multiple concentrations, at a minimum a concentration in Spanish and one in French. The new major should have at least one (and preferably two) courses shared in common by the two concentrations.
Geography, Bachelor's degree	4.6	Other. Establish collaborations between Geography, Anthropology, Sociology, and Crime and Justice Studies.	Collaboration between Geography, Anthropology, Sociology, and Crime and Justice Studies offers the opportunity for students in all fields to acquire additional competencies that will better prepare them for successful careers. It should be noted that jobs mapped to Anthropology, Geography, Sociology, and Criminology are all classified as in-demand in the Ohio Means Jobs list.
German, Bachelor's degree	1.4	Eliminate.	Staffing will be insufficient to offer a full major in German but we can continue to offer coursework at the elementary and intermediate level and will explore a curricular framework to allow this coursework to count towards a certificate, minor, or concentration with a languages major.
Graphic & Multimedia Design, Associate's degree (Lake Campus)	5.6	No action.	This degree feeds into the Bachelor of Technical and Applied Studies (BTAS) degree. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Greek, Bachelor's degree	0.2	Eliminate.	We do not currently have adequate staffing or student demand to continue to offer a full major in Greek. Classical Greek meets the College of Liberal Arts language requirement and could be incorporated as an option into a redesigned interdisciplinary program drawing courses from Classics, Religion, Philosophy, History, Art History, and other areas in the Liberal Arts.
Health and Physical Education, Bachelor's degree	6.6	Merge with other programs in the institution.	Reorganize by changing the Health and Physical Education (HPE) program to a concentration within the Sports Science program; There is also a potential to collaborate with Central State's HPE program.
History, Associate's degree (Lake Campus)	0.4	Eliminate.	Being examined for possible for termination.
Human Factors/Indust Psych, Master's degree	7.4	No action.	It is only in the past 3 years or so that the Department of Psychology has placed an increased focus on recruiting students for our MS in Human Factors and Industrial/Organizational Psychology (HFIO) program. Prior to that, the Department of Psychology focused very heavily on recruiting students for our PhD HFIO program, and we tended to accept into our terminal MS program only students who were truly exceptional. Now, though, we have created a MS HFIO Psychology concentration, the Human Performance and Effectiveness concentration that is course intensive (and does NOT include a thesis). We admitted our first class into that program in Fall 2021 and have admitted the second class for a Fall 2022 start. Also, we are more actively recruiting students into our MS HFIO Psychology program with the thesis. We expect to grow that program. We expect that we will not be on the low enrollment program list in 5 years.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Humanities, Master's degree	6.0	Merge with other programs in the institution.	The Master of Humanities (MHUM) Program is a flexible interdisciplinary program that allows students to either design an individual program of study or pursue a particular track within the program. It overlaps in both methodology and content with the Master's degree in English. Combining the two programs by developing additional tracks/concentrations will allow for greater efficiency and more opportunities for interdisciplinary engagement for students in this field of study. We also recommend encouraging students in the new integrated program to add stackable graduate certificates (there are a number of these offered in the College of Liberal Arts) to further enhance their professional credentials.
Info Tech & Cybersecurity, Bachelor's degree	3.2	No action.	Just started and growing quickly.
Integrated Science Studies, Bachelor's degree (Lake Campus)	4.0	No action.	New program created in 2016 with first graduating class in 2020. Potential for growth in program.
Interdisciplinary Science+Math, Master's degree	0.0	Eliminate.	Legacy program that has been discontinued
International Business, Bachelor's degree	8.4	No action.	This is a low-cost program. All but one of the program courses are already offered as requirements or electives in other business programs, none of which suffer from low enrollment problems; This program's enrollment and annual graduation levels fell during COVID, in part because the study abroad component was replaced with a less appealing domestic study substitute; Recruitment into the program will be increased in the coming post-COVID era; Program enrollments will be monitored and actions taken as needed.
Intervention Specialist, Bachelor's degree	0.2	No action.	This is a new program. And while the number of students is still low, they are increasing. Also, the courses in this program are also part of the MEd programs for Intervention Specialists and Exceptionalities. We will also be working with other institutions to see if there is a way to have a collaborative program across institutions - for this BS as well as our MEd Program for Intervention Specialists.
Intrdsciplnry App Science+Math, Master's degree	0.0	No action.	Off ramp master's track for the Interdisciplinary Applied Science and Mathematics (IASM) PhD program. Low overhead program that facilitates degree for students that are not able to complete the Qualification Exams in the PhD program.
Intrdsciplnry App Science+Math, Doctoral degree (research/scholarship)	1.0	No action.	The PhD program in its 8th year of operation. The interdisciplinary nature of the PhD program is well suited for research needs of the Wright State University and Dayton research community with focus on collaborations with the Air Force Research Laboratory (AFRL). It provides a unique opportunity for interdisciplinary research in the Dayton region. Former and current students are employed by a range of commercial and governmental organizations. The current cohort of students consists predominantly of self-paying students employed at AFRL. The low enrolment is in part correlated with the overall reduction of enrollment at Wright State and more recent COVID-related issues.

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Program	Number of graduates (5-year average)	Recommendation	Rationale
Latin, Bachelor's degree	0.0	Eliminate.	We do not currently have adequate staffing or student demand to continue to offer a full major in Latin. Latin meets the College of Liberal Arts language requirement and could be incorporated as an option into a redesigned interdisciplinary program drawing courses from Classics, Religion, Philosophy, History, Art History, and other areas in the Liberal Arts.
Leadership Development, Master's degree	7.2	No action.	While the number of students who have graduated in the Master of Science in Leadership Development (MSLD) program in the past 5 years may reveal low numbers, the anomaly of no students during the 2021 graduating class was the result of not recruiting for the 2019 academic year. Last year (2021) the program graduated 9 students and this upcoming year (2022) we are on course to graduate 10 students, moving toward our maximum number of 15 students per class. Each class of students begins in the fall semester, and they take two classes per semester, for five semesters, graduating in the spring of the following year. We hope to be on track to increase the number of students each year, until we reach the maximum number of 15. This can be enhanced by hiring a staff member who can assist with recruiting. Additionally, each year, we have quite a few students who take our classes as electives for other programs. This is a much-needed program. Effective fall 2021 it is an entirely online program and designed for working professionals who come from a variety of sectors such as military, law enforcement, education, non-profit, technology, healthcare, engineering, and finance. We have had students from all of these sectors, especially WPAFB which is a larger employer in the State and is in our own backyard. We typically have admitted a cohort of 15 students per year, with this being a two-year program. The approved 4+1 combined degrees with Organizational Leadership can serve as a pipeline for future MSLD students which will also help to increase enrollment.
Liberal Studies, Associate's degree (Lake Campus)	2.2	No action.	Shared courses with multiple degrees and potential for growth. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Liberal Studies, Bachelor's degree (Lake Campus)	1.4		
Marketing Analytics & Insights, Master's degree	0.2	No action.	Program began in Fall 2020; Numbers of graduates is growing and will be at least 12 for the 2021-2022 academic year.
Marriage and Family Counseling, Master's degree	0.0	Eliminate.	Program is deactivated.

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Program	Number of graduates (5-year average)	Recommendation	Rationale
Materials Science + Egr, Bachelor's degree	10.2	No action.	Enrollment and graduation rates dropped since 2019 due to events such as the pandemic and the faculty strike. This is expected to be temporary because advanced materials have been identified as one of the key strengths of the State of Ohio. Dayton is the home to the Air Force Research Laboratory (AFRL), the one largest concentration of engineers and scientists working in advanced materials technologies. This, along with a large number of small, medium, and large companies and research establishments along the I-75 corridor from Cincinnati to Lima place a strong demand for materials engineering graduates. There is a lack of awareness among high school counselors and science teachers about this dynamic field. Focused teacher workshops, such as the ASM International Education Foundation's Materials Camp for Teachers, have been effective in increasing the enrollment in Wright State's Bachelor of Science in Materials Science & Engineering (BSMSE) program. With the opening up of schools and the post-pandemic resumption of the ASM camp in 2022, the connection with high school teachers has been reestablished and enrollment and graduation numbers are expected to improve.
Materials Science + Egr, Master's degree	8.0	No action.	The program graduation rate is at the Wright State threshold. The Master of Science in Materials Science & Engineering (MSMSE) students include our BS students in the 4+1 program, students who have joined to benefit from the advanced degree, and those who go on to get a PhD. Much of what has been said about the Bachelor of Science in Materials Science & Engineering (BSMSE) program applies to the MS program as well. For the past few months, we are seeing increased admissions of both domestic and international students, and expect increased graduation rates.
Mathematics, Master's degree	4.6	Merge with other programs in the institution.	Will explore the possibility of merging this program with MS in applied math program as they share a number of classes and follow a similar track of study.
Medical Laboratory Science, Bachelor's degree	10.0	Other. Increased program size anticipated with new faculty hire for the Medical Laboratory Science (MLS) program. Outstanding employment opportunities for graduates so the program should be fostered and grown.	Beginning in 2018-2019, the name of this program was changed from Clinical Laboratory Sciences to Medical Laboratory Sciences. Because of this, graduates in this program in 2016-17 and 2017-18 were not captured in the initial low enrollment program data [initial 5-year average number of graduates was reported as 7.8]. Also, a full-time instructor for MLS was hired this year to facilitate an increase in enrollment. For the class of 2022-23, 17 students were accepted into the MLS program. This increase in enrollment is expected to remove the MLS program from the next low enrollment program report.
Microbiology + Immunology, Master's degree	8.6	Other. Will be part of a curricular review project along with other College of Science and Mathematics master's degrees to introduce a course work option to provide lab competencies. The commonalities among the programs will enable efficient course offerings and increase the admissions capacity of all the programs.	The program provides valuable, and timely, scientific training. There is strong student demand, as well as employment opportunity for graduates. The obstacles to growing enrollment are anticipated to be eliminated with the curricular redesign.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Middle Childhood Education, Bachelor's degree (Lake Campus)	9.2	No action.	Potential for growth. Looking to collaborate with Dayton campus on courses.
Multi-Age Education, Master's degree	2.0	No action.	This program is merged with our Adolescent to Young Adult (AYA) program(s) in the Teacher Education (TED) department. Only one course is unique to this program - all others include students from the AYA program(s) as well.
Music, Bachelor's degree	2.6	Merge with other programs in the institution.	We propose an integrated arts degree to replace the current BA majors in music, theatre studies, and art with three concentrations. The arts management certificate could be an additional option for this degree.
Music, Master's degree	8.4	Other. Revive Music Ed concentration and move to summer online cohort model plus online courses during year.	Evidence demonstrates that graduate students overwhelmingly are looking for online opportunities and demand is largely from secondary school teachers. A new faculty member has been hired who will be strongly engaged in recruitment efforts and rejuvenation of Master's program.
Music Education, Bachelor's degree	13.2	Other. Increase recruiting and retention efforts.	COVID19 has negatively impacted this area due to the interruption in classroom instruction. We will step up recruiting and use the next few years to rebuild what has historically been a very strong program.
Neuroscience, Bachelor's degree	11.0	No action.	Program was approved only in April 2017 - first cohort of incoming freshman could have graduated this past spring. The data shows clearly a growing trajectory and there is every expectation that the trend will continue.
Nursing, Bachelor's degree (Lake Campus)	12.0	No action.	New program created in 2015 with first graduating class in 2019.
Nursing, Doctoral degree (professional practice)	0.2	No action.	Recommendation is to aggressively market, hire faculty, and enroll students into the program.
Organizational Leadership, Bachelor's degree (Lake Campus)	11.6	Eliminate.	Eliminating this offering at the Lake Campus.
Organizational Studies, Master's degree	0.4	No action.	We do not admit students to this program. It is only for students who complete the courses in the doctoral degree in Organizational Studies but who are unable to complete the rest of the doctoral program. Thus, it is typically given to those who could not pass the qualifier. It allows students to graduate with something instead of leaving without anything. It is important to award them with a degree for completing all of the courses.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Organizational Studies, Doctoral degree (research/scholarship)	1.6	No action.	This is a uniquely designed interdisciplinary program for leaders of organizations, including internship opportunities with professional mentors and leaders who build a capacity for and promote a culture of change in their workplace. The program began in 2013 for scholar-practitioners committed to exploring and expanding research related to the practices and processes of organizations for working professionals who come from K-12 and higher education, science, business management, healthcare, non-profit, technology, engineering, and military. We have had students from all of these sectors, who incorporate their knowledge of organizational and leadership theories into skillful interactions within larger systems (organizational, local, regional, national or global) while enhancing the development of others in surrounding contexts. Students are trained as research practitioners who identify organizational processes, test hypotheses through systematic inquiries, and share the findings through broad-scale oral and written means to expand the knowledge in the field. They also become educational facilitators and problem solvers who develop and inspire diverse and critical thinking, group knowledge-building, and open-ended processes to manage problems that cannot be anticipated and require nonlinear problem solving. We typically have admitted a cohort of 4-8 students per year (rolled entries in all semesters but take core courses as a cohort) for the first two years. Although students have 10 years to complete all the requirements for the EdD program (Wright State Policy 5720) and the EdD program has existed for only 10 years since 2013, beginning 2016, already 12 students had completed their dissertation and graduated. Currently there are 30 doctoral students with 50% of them in their dissertation stages.
Performance, Bachelor's degree	7.8	Other. Increase recruiting and retention efforts.	COVID19 has negatively impacted this area due to the interruption in classroom instruction and in person performances. We will step up recruiting and using the next few years to rebuild what has historically been a very strong program.
Philosophy, Bachelor's degree	3.2	Merge with other programs in the institution.	The study of philosophy, moral reasoning, and logical argumentation is central to a liberal arts education. Philosophy explores fundamental questions about values, personal responsibility, justice and the good life, while developing the important skills of critical thinking, textual analysis, and effective communication. Because philosophy intersects in content and methodology with multiple liberal arts disciplines, we propose enhancing the support it currently provides to existing College of Liberal Arts programs, as well as incorporating it into a new interdisciplinary program. This new program will merge the Philosophy program with Comparative Religion, Art History, and Classics, and utilize courses from a variety of other liberal arts programs to make these disciplines more visible and to make them sustainable over the long term so that they can continue to play the essential role they have always played in a liberal arts education.

Program	Number of graduates (5-year average)	Recommendation	Rationale
Physical Education, Master's degree	1.8	Other. Move program to an online format to increase enrollment, revise program of study and curriculum to attain accreditation from the Commission on Sport Management Accreditation as to increase the national reputation of the program.	Currently this program has no full-time faculty devoted to the program. There are 11 students in the program, with 8 more who were recently accepted to start in the fall 2022 semester. Students in this program take only 5 courses in the Kinesiology & Health (KNH) department and the rest are taken in the Leadership department. Moving the program to an online format and obtaining accreditation would further enhance enrollment in the program.
Physics, Bachelor's degree	9.4	No action.	The recent low enrolment trend in the Physics bachelor's program is strongly correlated to the recent reduction of enrollment at Wright State in part mitigated by COVID-related issues. The program is highly valued in Dayton research community with majority of graduate employed by local Department of Defense contractors with starting salaries of $60k+. Significant fraction of our graduates join prestigious PhD programs in STEM (UWA, Vanderbilt, WPI). We have a plan of action that includes a combination of advising and outreach activities to increase enrolment in the program.
Physics, Master's degree	7.0	No action.	The recent low enrolment trend in the Physics master's program is strongly correlated to the recent reduction of enrollment at Wright State in part mitigated by COVID-related issues. The program is highly valued in Dayton research community with majority of graduate employed by local Department of Defense contractors with starting salaries of $60k+.
Physics & Math Dual, Bachelor's degree	0.4	No action.	Low overhead program that provides students with an opportunity to obtain a Math Degree by taking several upper level Math courses. We will work with Mathematics department to achieve greater degree of flexibility to facilitate higher enrolment.
Physiology + Neuroscience, Master's degree	3.8	Other. Will be part of a curricular review project along with other College of Science and Mathematics master's degrees to introduce a course work option to provide lab competencies. The commonalities among the programs will enable efficient course offerings and increase the admissions capacity of all the programs.	1. Resources (e.g., Program Director, courses, etc.) shared with the much larger Anatomy (ANT) MS program. Course resources also shared with the Biomedical Sciences (BMS) PhD program (to create efficiencies and larger course enrollments). Potential mentors hail from several areas, including the Air Force Research Laboratory (AFRL) and the Naval Medical Research Unit (NAMRU), further reducing any "cost" to the program. Thus, there is effectively no or very little independent cost/resources required to deliver this self-paying program. 2. Created a course option (Fall 2020) that should increase enrollment and graduation rate. The previous thesis-only option (we have both thesis and course options now), resulted in an increased time to degree and did not offer a means for students not progressing with their thesis lab work to still receive their MS degree. 3. Fall 2021 was the first year of a 4+1 BS/MS course or thesis-option program.
Psychology, Associate's degree (Lake Campus)	0.8	No action.	Shared courses between associate and bachelor's degrees. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Psychology, Bachelor's degree (Lake Campus)	5.0	No action.	New program created in 2018 with first graduating class this year. Also developing strategies to increase the awarding of the associate degrees for students who have stopped out prior to receiving their bachelor's degree.

(continued)

Program	Number of graduates (5-year average)	Recommendation	Rationale
Public Health, Bachelor's degree	7.4	Other. Program has been transferred to the Department of Population and Public Health in the Boonshoft School of Medicine.	The Public Health BS/BA Programs were developed in response to a previous low enrollment program recommendation for the Biological Sciences BA program. These programs are new and have a strong upward trend in regard to enrollment. Separate from these considerations, an administrative decision has been made to transfer these programs to the Department of Population and Public Health Sciences, beginning in fall semester 2022.
Public Health Education, Bachelor's degree	4.8	Eliminate.	Insufficient faculty to support program. Not accepting students as of Fall 2021.
Rehabilitation Counseling, Master's degree	4.8	Eliminate.	Low enrollment for the last 5 years. Program deactivated.
Renewable and Clean Energy Egr, Master's degree	5.6	No action.	The Master of Science in Renewable and Clean Energy Engineering (MS-RCEE), established in 2009 in collaboration with UD, AFIT, and CSU, is the first program of its kind in Ohio. It was established soon after the crisis of high fuel prices in 2007. Enrollment was high during the 2010-2015 timeframe, but several years of low fossil fuel prices, and the reduced focus on this area at various levels of government decreased interest in this degree program. We are now in a time of both high fossil fuel prices and an environmental crisis brought about from the use of fossil fuels. Programs such as MS-RCEE which address the need for clean environmentally friendly energy sources are critical. This program provides education in some of these new technologies - wind, solar, hydrogen, etc. Prospects for increased enrollment are bright.
Selected Graduate Studies, Master's degree	0.0	No action.	This program exists in order to allow unique programs of study not made possible by slight augmentation of an existing degree program. It is appropriate that the option be available but rarely used.
Sign Language Interpreting, Bachelor's degree	5.4	No action.	New leadership is looking at ways to increase enrollment, we have 4 new students starting in Fall 2022. Will monitor for 1-2 year and will reevaluate the status of the program.

(continued)

Program	Number of graduates (5-year average)	Recommendation	Rationale
Social Science Education, Bachelor's degree	13.6	Other. Coordinate with Department of Teacher Education to improve recruitment, retention, and completion.	In the past five years, the Social Science Education major underwent a significant transformation that impacted enrollment in several ways. Previously, the program had been a four-year undergraduate major with students expected to complete a Master's Degree in education that satisfied the requirements for licensure in the State of Ohio. With the end of that graduate program requirement, the undergraduate degree underwent a complete overhaul. Three of the undergraduate years are in the College of Liberal Arts (CoLA), and students then take their senior year to student teach and obtain their licensure via the Department of Teacher Education courses required for this. Over the past five years we have cycled out the last of the Master's-bound students, onboarded the new pure-undergraduate students, and resolved curricular and advising issues that had presented various roadblocks to the students. This program will be working with the Department of Teacher Education to identify whether student completion stops early (years 1-2, while still in CoLA) or in the last year (which requires a series of entrance thresholds, but also includes content courses in Education that may be dissatisfactory to prospective graduates). It should be noted that according to the UPCEA study conducted for Wright State, the undergraduate major in Social Science Education is the 9th ranked program (grad, undergrad, and certificate) in the institution and the fourth-ranked undergraduate major.
Social Work, Associate's degree (Lake Campus)	1.6	No action.	Shares courses with Psychology. Working with registrar on barriers to articulate from associate to bachelor's degree. Also developing strategies to increase the awarding of associate degrees for students who have stopped out prior to receiving their bachelor's degree.
Sociology, Associate's degree (Lake Campus)	0.2	Eliminate.	Being examined for possible for termination.
Spanish, Bachelor's degree	10.8	Merge with other programs in the institution.	Combining the separate degrees in Spanish and French into a major in Modern Languages with different concentrations will allow for greater cooperation across languages. Shared courses might include translation theory, methods of cultural analysis, as well as thematic courses on transnational themes.
Statistics, Bachelor's degree	6.6	No action.	High potential program. Advertising and industry partnerships will be enhanced which will result in increased enrollment. Concentration in Actuarial Science carries same designation as Ohio State's program in Society of Actuaries' rankings. More visible internship tracks and other recruiting techniques will grow this program.
Theatre Studies, Bachelor's degree	8.4	Merge with other programs in the institution.	We propose an integrated arts degree to replace the current BA majors in music, theatre studies, and art with three concentrations. The arts management certificate could be an additional option for this degree.
Urban Affairs, Bachelor's degree	5.8	Eliminate.	This has already been done prior to this review.
Wellness Studies, Bachelor's degree	0.6	No action.	Program is designed to allow Health and Physical Education majors who have decided not to complete their degree with licensure to have an alternative means to earn a degree. This is a non-licensure degree option with no faculty assigned to the program and no unique coursework within the program.

(continued)

Program	Number of graduates (5-year average)	Recommendation	Rationale
Women,Gender&Sexuality Studies, Bachelor's degree	3.6	Other. We will step up recruitment for the program and consider administrative changes to promote greater cross-collaboration with other programs that make a major contribution to Diversity, Equity, and Inclusion, including African and African American Studies. A potential incorporation into a broader interdisciplinary program within the framework of a reform of the current Liberal Studies major will be considered.	This is an interdisciplinary major composed almost entirely of courses housed in other majors and taught by faculty from their respective units. There are no faculty positions assigned to this major, so there are minimal costs associated with it. Given the increasing importance of Diversity, Equity, and Inclusion and the need to recruit students from underserved, underrepresented, and marginalized demographics, we believe that this program should continue to be offered but within a framework that better promotes the learning outcomes associated with it to potential students. It should be noted that according to the UPCEA Portfolio Decision Making Model study conducted for Wright State the undergraduate major in Women, Gender and Sexuality Studies is ranked third of all program (grad, undergrad, and certificate) and the top-ranked undergraduate major using that model.

Duplicate Programs

Duplicate Program Identification

The Ohio Department of Higher Education (ODHE) identified 17 disciplines for which both Wright State University and Central State University offered duplicate bachelor's degree programs based upon programs' classification of instructional program (CIP) designations (see Table 11). See Appendix C for the selection criteria used by the ODHE to identify duplicative programs for institutions by state region.

Table 11. *Duplicative Programs Identified by the ODHE*

CIP code	CIP description	Award level
131210	Early Childhood Education and Teaching	Bachelor's
131312	Music Teacher Education	Bachelor's
131314	Physical Education Teaching and Coaching	Bachelor's
230101	English Language and Literature, General	Bachelor's
260101	Biology/Biological Sciences, General	Bachelor's
270101	Mathematics, General	Bachelor's
310505	Kinesiology and Exercise Science	Bachelor's
400501	Chemistry, General	Bachelor's
420101	Psychology, General	Bachelor's
440701	Social Work	Bachelor's
451001	Political Science and Government, General	Bachelor's
451101	Sociology	Bachelor's
500701	Art/Art Studies, General	Bachelor's
500903	Music Performance, General	Bachelor's
520101	Business/Commerce, General	Bachelor's
520301	Accounting	Bachelor's
540101	History, General	Bachelor's

Based on the CIP codes listed in Table 11, Wright State University's Office of Institutional Research and Effectiveness (IR&E) identified the corresponding bachelor's degree programs offered at Wright State University. See Appendix D for a complete list of programs for review, including the ODHE-provided and IR&E-provided data points about each program.

Duplicate Program Analysis

The provost and deans at Wright State University evaluated the duplicate programs identified at Wright State University and Central State University (see Appendix D). To assist in evaluations, the ODHE provided guidance on the factors that can be used during the consideration of recommended actions for duplicate programs (see Appendix E).

Duplicate programs were evaluated for recommendations of either "no action" or "action." Of the 25 programs offered at Wright State University that were identified as duplicate programs also offered at Central State University, "no action" was recommended for 22 programs and "action" was recommended for three programs.

When recommending "no action," the provost and deans provided the rationale for taking no action (e.g., robust enrollment and program completion, program central to institutional mission and/or reputation, program specialized and therefore not duplicative, program shares a large proportion of classes with other programs on campus, etc.). Table 12 displays the 22 duplicate programs that were targeted for no action and the rationale for no action.

Table 12. *Rationale for Duplicate Programs Targeted for "No Action"*

CIP code	Program name	Rationale
131312	Music Education - BM	The number of total degrees awarded by Wright State in the past 5 years is 16 times the number awarded by Central State and the cost of the Wright State degree is over $12,000 cheaper.
230101	English - BA	The number of total degrees awarded by Wright State in the past 5 years is over 15 times the number awarded by Central State and the cost of the Wright State degree is over $6000 cheaper. Central State offers only one of the concentrations offered by Wright State (English Literature); it does not offer Professional and Technical Writing, Creative Writing, Teaching English to Speakers of Other Languages, and Integrated Language Arts.
230101	English: Lang Arts Ed - BA	
260101	Biological Sciences - BA	The BA in Biological Sciences provides learning objectives beyond the scope of the BA program at Central State. In addition, is currently under curricular review by the Biological Sciences (BIO SCI) Undergraduate Curriculum Committee to revise the program to meet the changing needs of our student population. Current considerations are to involve interdisciplinary programming with other departments in the College of Science and Mathematics and other colleges at Wright State, enhancing the scope of this program.
260101	Biological Sciences - BS	The biology program has robust enrollment and program completion; the program is central to the institutional mission; many graduates go on to graduate and professional schools and careers that meet societal needs; the program provides many opportunities and specializations that are not duplicative with Central State. The Bachelor of Science in Biological Sciences (BIO BS) program features breadth of life science topics both in coursework and in undergraduate research opportunities. BIO BS provides strong preparation for graduate and professional programs after graduation. In addition, BIO students have the option to specialize with concentrations in Biology Education, Cell and Molecular Biology, and Ecology, Evolution, and Organismal Biology. BIO students may also apply for acceptance into our major's Medical Laboratory Sciences Program for their final year of a BS.
270101	Mathematics - BA	The BA program in math features breadth and flexibility and is designed for non-math careers such as finance or data science that require mathematical competency. It is informed by the broad and unique research competencies of the faculty. It plays an important role for students who pursue careers that do not require the rigors of a BS program, but sufficient mathematics background for solid quantitative work.

(continued)

CIP code	Program name	Rationale
270101	Mathematics - BS	Mathematics is a requirement of all students at the university and central to the institutional mission. In additional to serving the region's research and private sectors with important degree options, the department also provides consulting services across campus and is intimately involved in campus retention issues through strategies aimed at enhanced math competency via a co-remediation model. The curriculum of the program reflects the broad and unique research competencies of the faculty.
310505	Sports Science - BSED	This program is distinct from that offered by Central State as we offer different concentrations and intend to expand the number of concentrations in the future.
310505	Wellness Studies - BSED	Program is designed to allow Health and Physical Education majors who have decided not to complete their degree with licensure to have an alternative means to earn a degree. This is a non-licensure degree option with no faculty assigned to the program and no unique coursework within the program.
400501	Chemistry - BS	Wright State has an American Chemical Society-certified degree program that is rigorous and prestigious.
420101	Psychology - BA	Psychology has large undergraduate enrollment in both the BA and BS programs. Having overlapping programs provides students with options to complete different degree programs without having to change majors or go to a different university. Consistent with American Psychological Association undergraduate education guidelines, the Department of Psychology approaches these degree programs from a science-based perspective. Also, research-active TET faculty who teach in the BA and BS programs
420101	Psychology - BS	and support the MS and PhD programs in human factors and industrial/organizational psychology provide undergraduates with opportunities to increase experiential learning in faculty research labs. We provide our majors with greater STEM-literacy than might be obtained from other psychology programs in the state. This is in addition to an undergraduate program director supporting practica, providing students with experiential learning in applied settings.
440701	Social Work - BA	Strong enrollment in a high need program.
451001	Political Science - BA	The number of total degrees awarded by Wright State in the past 5 years is over 7 times the number awarded by Central State and the cost of the Wright State degree is over $3000 cheaper.
451101	Sociology - BA	The number of total degrees awarded by Wright State in the past 5 years is over 5 times the number awarded by Central State and the cost of the Wright State degree is over $700 cheaper.
500701	Art - BA	The number of total degrees awarded by Wright State in the past 5 years is over 11 times the number awarded by Central State.
500701	Art - BFA	The number of total degrees awarded by Wright State in the past 5 years is over 11 times the number awarded by Central State. Central State does not offer the BFA, as does Wright State, only a BA in Studio Arts and a BA in Graphic Design.
500903	Performance - BM	The number of total degrees awarded by Wright State in the past 5 years is almost twice the number at Central State and the cost of the Wright State degree is over $3,000 cheaper.
520101	General Business - BSB	This major is offered only at the Wright State University Lake Campus (Celina, OH); its purpose is to meet workforce needs for the Lake Campus region; this program is covered by Wright State University's Association to Advance Collegiate Schools of Business (AACSB) Business Accreditation (differing it from Central State University's Accreditation Council for Business Schools and Programs [ACBSP] Business Accreditation); the curriculum differs notably from the other two programs identified as potentially duplicative.

(continued)

CIP code	Program name	Rationale
520101	Management - BSB	This major is offered to Wright State students only at its Dayton Campus; the curriculum is specific to the Management subfield of Business Administration to meet the workforce needs in that subfield more closely than the other two programs identified as potentially duplicative; it is covered by Wright State University's AACSB Business Accreditation (differing it from Central State University's ACBSP Business Accreditation).
520301	Accountancy - BSB	This major holds AACSB Accounting Accreditation (differing it from Central State University's Accounting major); this program generates one of the highest Certified Public Accountant (CPA) pass rates for its graduates relative to all of Ohio's public universities.
540101	History - BA	The number of total degrees awarded by Wright State in the past 5 years is over 15 times as many as at Central State and the cost of the Wright State degree is over $7,500 cheaper.

Conversely, for duplicate programs that were recommended for action, the provost and deans recommended one of the following actions:

- Eliminate,
- Merge with other programs in the institution (describe proposed merger),
- Collaborate with other state institutions (describe proposed collaboration), or
- Other (please specify).

Table 13 displays the three duplicate programs that were targeted for action and the recommended action.

Table 13. *Recommended Actions for Duplicate Programs Targeted for "Action"*

CIP code	Program name	Recommended action
131210	Early Childhood Ed - BSED	Eliminate. This program has already been eliminated/converted to Elementary Education.
131314	Physical Education - BSED	Collaborate with other state institutions. We will communicate with Central State University to explore whether there are opportunities for students to share some coursework and teaching/field experiences with Wright State.
400501	Chemistry - BA	Other. The program will be evaluated for redesign or elimination.

Appendix A: Defining Low-Enrollment Courses and Programs

NOTE: The following guidance for defining low-enrollment courses and programs was issued by the Ohio Department of Higher Education (ODHE) on March 25, 2022.

A single numerical definition of **low-enrollment courses** is problematic because courses contribute to institutions in different ways (e.g., institutional quality, service to multiple majors, student need), and because courses have widely varying contexts and costs. That being said, most colleges and universities have set **thresholds** below which courses will not be offered. These thresholds often differ within and across institutions based on pedagogical factors related to discipline (professional courses vs. general education courses), course level (lower division vs. upper division or undergraduate vs. graduate), or resources (cost, availability of faculty or practicum supervisors, availability of facilities).

Likewise, a single numerical definition for **low-enrollment programs** is difficult because programs also contribute to institutions in multiple ways (e.g., institutional reputation, service to multiple student majors, regional need), and because programs themselves have widely varying contexts (accreditation and licensure requirements, pedagogical requirements) and costs (faculty, facility and equipment needs). Again, however, most colleges and universities have defined a minimum number of students required for each of their programs, with this minimum **threshold** differing within and across institutions based on institutional mission, student demand and availability of resources.

To comply with the legislation, the Chancellor defines **low-enrollment courses** as course sections that fall below 20% above the institutionally defined threshold for that course section over two or more semesters. The Chancellor defines **low-enrollment programs** as programs that fall below 20% above the institutionally defined criteria for students in a program.

Appendix B: Determining Thresholds for Course and Program Enrollment and Recommended Actions for Courses [and Programs] That Fall Below the Chancellor's Definition of Low Enrollment

NOTE: The following guidance for determining thresholds for low-enrollment courses and programs and recommended actions for courses [and programs] that fall below the definition of the Chancellor's definition of low enrollment was issued by the Ohio Department of Higher Education (ODHE) on March 25, 2022.

The following six factors should be considered by trustees in their determination of course and program thresholds and in their consideration of recommended actions for courses and programs that fall below the Chancellor's definition of low enrollment. The bulleted points following each factor are examples of data points that could be used in the analysis and may be augmented by other evaluative tools.

1. Quality
   - Student retention and completion within the program
   - Student employment outcomes
   - Successful student transfer or placement in graduate/professional school
   - Scholarly productivity of faculty and students
   - Attainment of specialized accreditation
   - Program reputation/ranking
   - Performance of students in subsequent courses

2. Centrality to the Institution's Mission
   - Relevance of the course or program to the institution's strategic plan
   - Importance of the course or program to the institution's reputation or recruiting efforts
   - Need for the course within the curriculum (e.g., gateway, service, critical for completion)

3. Cost-Effectiveness of the Course or Program
   - Revenue sufficiency to support the course or program
   - Ratio of number of graduates to FTE faculty

4. Demand for the Programs or Courses
   - Program enrollment patterns over time
     - Students enrolled
     - Degrees/certificates awarded
     - Understanding reasons for low enrollment
       - Duplication and competition
       - Lack of jobs?
       - Marketing?
   - Course enrollment patterns over time
     - Understanding reason for low enrollment
       - Too many sections?

- Sections offered at inconvenient times?
- New course?
- Faculty member identified too late?
- Elective with little demand?
- Data-driven market analysis of employer need

5. Potential for Collaboration with Other Institutions
- Programs with low enrollment at one institution and need for a range of highly specialized faculty (e.g., BFA or MFA)
- Courses with low enrollment at one institution but greater need across the state (e.g., certain foreign languages, highly specialized courses within a major)

6. Potential for Restructuring
- Programs with high administrative costs per graduate
- Courses with high administrative cost per course completion
- Optimizing the number of course sections when multiple sections with low enrollments are noted

Appendix C: Data Regarding Duplicate Programs

NOTE: The following statement about the data initially compiled about duplicate programs across two or more institutions located within the same geographical area was issued by the Ohio Department of Higher Education (ODHE) on March 25, 2022.

ODHE identified duplicative programs within each region of the state, with particular attention to co-located campuses. The following steps were used construct the attached spreadsheets:

- Using data reported to the Higher Education Information (HEI) system, ODHE classified degrees awarded in the academic years 2019, 2020, 2021 as a program within an institution using its six-digit CIP Code, resulting in a list of programs offered at each public college and university in the state.

- Each public college and university was then assigned to one of six regions across the state; these regions are mainly aligned to the six JobsOhio regions associated with the main campus.
    - NEOMED is not included due to its medical program focus.
    - Southern State Community College was placed in the Southwest Region.

- Information on programs at institutions in each region was then used to create spreadsheets indicating:
    - Duplicate programs (highlighted in red) at universities in each region;
    - Duplicate programs (highlighted in red) at community colleges in each region; and
    - Duplicate programs (highlighted in red) at co-located campuses.

- Data on the number of program graduates is included for the same three years and the average cost per graduate of the program was calculated using HEI cost data.
    - The HEI cost data for each course completed by the graduate was summed (please note that costs were summed for all courses taken prior to graduation, whether or not the course was required for the student's program)
    - This summed cost was averaged across all program completers over the three-year period

- Because Ohio State University reports all bachelor's degrees as earned at its Columbus campus, students who earned bachelor degrees from regional campuses are not identified in HEI. To identify degrees earned from OSU's regional campuses, students who received a bachelor's degree that is available at a regional campus and who earned the majority of their course credits from the regional campus were determined to have been earned from that regional campus.

These spreadsheets will help faculty, administrators, and trustees identify programs that are duplicated in their region and will help them as they evaluate duplicate program fit within the institution (e.g., reasonable duplication or unreasonable duplication that should be targeted for action, such as elimination or regional collaboration).

NOTE: The following statement about the revised data compiled about duplicate programs was issued by the ODHE on April 20, 2022.

The Department of Higher Education is providing additional information that you may find useful in your assessment of low enrollment and duplicate programs.

The spreadsheet provided previously contained a listing of programs by CIP code, number of graduates over the past three years, and the average cost of per graduate in this CIP code statewide.

This spreadsheet attached provides
- The average cost per graduate at each institution
- The average number of credit hours earned per graduate at the institution from which the student graduated
- The average length of time to degree in years

The latter two items were added at the request of one of our institutions. If there is additional information that you may find useful, let me know and we will try to make it available.

Please note that universities with branch campuses, degrees offered at both the main and branch campuses may be highlighted in this spreadsheet. This is provided for your information—these are **not considered duplicate programs** for the required reporting.

Appendix D: Duplicate Programs for Review

CIP code	Data from the Ohio Department of Higher Education					Data from Institutional Research and Effectiveness		
	School	Degrees awarded	Degree cost ($)	Semester credit hours	Years to degree	College	Department	Program
131210	Central State University	16	53,255	120	5.2			
	Wright State University	155	59,013	125	4.2	Coll of Health Ed & Human Services	Teacher Education	Early Childhood Ed - BSED
131312	Central State University	3	97,761	158	5.6			
	Wright State University	48	85,295	136	4.2	College of Liberal Arts	Music	Music Education - BM
131314	Central State University	1	74,834	170	5.3			
	Wright State University	13	43,584	99	4.5	Coll of Health Ed & Human Services	Kinesiology & Health	Physical Education - BSED
230101	Central State University	10	54,330	133	7.2			
	Wright State University	158	47,839	105	4.1	College of Liberal Arts	English Language & Literatures	English: Lang Arts Ed - BA English - BA
260101	Central State University	47	75,205	126	4.1			
	Wright State University	251	80,191	122	4.1	College of Science & Mathematics	Biological Sciences	Biological Sciences - BA Biological Sciences - BS
270101	Central State University	3	40,131	98	3.0			
	Wright State University	43	46,856	95	3.7	College of Science & Mathematics	Mathematics & Statistics	Mathematics - BA Mathematics - BS
310505	Central State University	18	53,983	121	4.1			
	Wright State University	115	58,791	124	4.1	Coll of Health Ed & Human Services	Kinesiology & Health	Sports Science - BSED Wellness Studies - BSED
400501	Central State University	12	60,934	103	3.5			
	Wright State University	46	67,780	103	4.4	College of Science & Mathematics	Chemistry	Chemistry - BA Chemistry - BS
420101	Central State University	76	46,917	117	4.0			
	Wright State University	500	42,197	102	3.9	College of Science & Mathematics	Psychology	Psychology - BA Psychology - BS
440701	Central State University	58	45,140	109	3.8			
	Wright State University	163	40,862	91	3.4	Coll of Health Ed & Human Services	Social Work	Social Work - BA
451001	Central State University	13	49,768	117	3.9			
	Wright State University	97	46,685	106	4.1	College of Liberal Arts	School Public and Intern'l Affairs	Political Science - BA
451101	Central State University	6	39,686	101	4.6			
	Wright State University	34	38,929	92	4.6	College of Liberal Arts	Sociology & Anthropology	Sociology - BA
500701	Central State University	7	49,422	109	3.9			
	Wright State University	79	53,802	111	4.7	College of Liberal Arts	Art & Art History	Art - BA Art - BFA
500903	Central State University	11	92,841	144	6.0			
	Wright State University	21	89,348	132	4.2	College of Liberal Arts	Music	Performance - BM
520101	Central State University	163	48,991	114	4.1			
	Wright State University	232	44,668	102	3.9	Raj Soin College of Business	Raj Soin College of Business Admin Management	General Business - BSB Management - BSB
520301	Central State University	22	50,992	119	3.8			
	Wright State University	205	46,823	103	4.2	Raj Soin College of Business	Accountancy	Accountancy - BSB
540101	Central State University	4	52,363	123	4.8			
	Wright State University	61	44,683	101	4.1	College of Liberal Arts	History	History - BA

Note. Degrees awarded = the number of graduates over the past three years; Degree cost ($) = the average cost per graduate at each institution; Semester credit hours = the average number of credit hours earned per graduate at the institution from which the student graduated; Years to degree = the average length of time to degree in years.

Appendix E: Determining Recommended Actions for Duplicate Programs

NOTE: The following guidance on recommended actions for duplicate programs was issued by the Ohio Department of Higher Education (ODHE) on March 25, 2022.

Duplication of many programs is to be expected. For instance, essentially all colleges will have programs in majors that are needed by students throughout the state (e.g., English, psychology, engineering, business, mathematics, history, nursing). Therefore, cases of duplication will need to be considered on a case-by-case basis to determine whether the duplication is appropriate. Factors to be considered in this analysis would include dynamics such as the number of students enrolled in the program, the number of graduates from the program, costs of the program (including staffing, facilities, pedagogical requirements, and accreditation requirements), quality or reputation of the program, etc.

The following factors can be used during the consideration of recommended actions for duplicate programs. The bulleted points following each factor are examples of data points that could be assessed in the analysis and may be augmented by other evaluative tools.

1. Quality
   - Student retention and completion within the program
   - Student employment outcomes
   - Successful student transfer or placement in graduate/professional school
   - Scholarly productivity of faculty and students
   - Attainment of specialized accreditation
   - Program reputation/ranking
   - Areas of specialization within the program that differentiate it from other programs in the same discipline offered in the region

2. Centrality to the Institution's Mission
   - Relevance of the program to the institution's strategic plan
   - Importance of the program to the institution's reputation or recruiting efforts
   - Need for the program based on data for "in-demand" jobs

3. Cost-Effectiveness
   - Revenue sufficiency to support the program
   - Ratio of number of graduates to FTE faculty/administrators

4. Demand
   - Program enrollment patterns over time
     - Students enrolled
     - Degrees/certificates awarded
     - Understanding reasons for low enrollment in the program
       - Duplication and competition
       - Lack of jobs?

- Marketing?
- Data-driven market analysis of employer need

5. Potential for Collaboration with Other Institutions
   - Programs with low enrollment at one or more institutions and a need for a range of highly specialized faculty (e.g., BFA or MFA)
   - Programs with low enrollment at one or more institutions but where there is a need for graduates within the region or the state (e.g., certain foreign languages, highly specialized majors)
   - Programs with low to moderate enrollment at one or more institutions that are costly to offer

6. Potential for Elimination
   - Programs with persistent low enrollment where collaboration doesn't make sense