

# KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **17-Jan-17** Curriculum Bulletin \_\_\_\_\_

Effective Date **Fall 2017** Approved by EPC \_\_\_\_\_

Department  
College **AT - Applied Engineering...Technology**  
Proposal **select one**  
Proposal Name **Revision of the college's name**

Description of proposal:

**Revise the name of the College of Applied Engineering, Sustainability and Technology (AT) to the College of Aeronautics, Engineering and Technology (AE). The name change better reflects the programs of study within the college**

(AR)

Describe impact on other programs, policies or procedures (e.g., duplication issues; enrollment and staffing considerations; need, audience)

**No impact: Only name is changing**

Units consulted (other departments, programs or campuses affected by this proposal):

**Provost; name change affects only the college and does not affect programs, campuses or units outside the college**

## REQUIRED ENDORSEMENTS

\_\_\_\_\_  
Department Chair / School Director

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\_\_\_\_\_  
Campus Dean (for Regional Campuses proposals)

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*Robert G. Suro*  
\_\_\_\_\_  
College Dean (or designee)

*17 Jan 2017*

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Dean of Graduate Studies (for graduate proposals)

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Senior Vice President for Academic Affairs and Provost (or designee)

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# Proposal Summary to Change the Name of the College of Applied Engineering, Sustainability and Technology

This proposal seeks to change the name of the College of Applied Engineering, Sustainability and Technology (CAEST) to the College of Aeronautics, Engineering and Technology (CAET), effective July 1, 2017. The new name of the college will better reflect the programs of study within the college. The current name of the college was adopted in 2011.

## History of College of Applied Engineering, Sustainability and Technology

The technology programs at Kent started as early as 1913 when space was allocated on campus for “manual training” as an integral component for the preparation of teachers at Kent State Normal school. The School of Technology was a dependent school in the College of Fine and Professional Arts until November 1995 when it became an Independent School of Technology within the Regional Campus System.

The School of Technology consisted of three academic program areas, namely: (i) Aeronautics, (ii) Applied Business and Technology, and (iii) Applied Science and Technology. In 2006 the School of Technology achieved College status and became the College of Technology. In 2011 all technology programs associated with regional campuses separated from the College of Technology and became part of the newly formed Regional College.

In July 2012 the name of the College of Technology was changed to the College of Applied Engineering, Sustainability, and Technology to reflect the changing mission of the College toward development of new applied engineering and sustainability programs. A name change proposal was submitted in 2014 to reflect the growing viability of aeronautics program. The request for a name change was approved by EPC and Faculty Senate however a decision was made to stop the request before final approval in order to thoroughly review the mission and future of the college. The review has been completed hence this proposal for a name change.

## 1. QUALITY OF THE FACULTY, STUDENTS AND PROGRAMS

The college currently is comprised of three major curriculum areas, Aeronautics and Aerospace Engineering, Applied Engineering, and Construction Management. Construction Management will be administratively transitioned to the College of Architecture and Environmental Design (CAED), effective Fall 2017. Therefore the remainder of this proposal will address only the two remaining program areas within the College. At the present time there are 530 Aeronautics majors, 18 Aerospace Engineering majors and 314 Applied Engineering majors. There are also 177 students in the Masters of Technology program. These numbers reflect the Fall 2016 15<sup>th</sup> day headcount.

There will be twenty three full time faculty members remaining in the college after the transfer of the Construction Management faculty to CAED. There are eleven full-time faculty in the Aeronautics program; one tenured, four tenure-track and six full time non-tenure track; all hold a terminal degree in their respective fields. The Aeronautics program has an on-going search for one additional full-time tenure-track faculty expected to begin employment for the 2017 fall semester. The Applied Engineering program has twelve full time faculty; four full time tenured, two tenure-track, and six full time non-tenure track faculty. All tenure and tenure-track faculty hold terminal degrees in their respective fields.

The college has seen consistent enrollment growth over the past 8 years. Even with the loss of the 186 Construction Management students the college will still maintain a healthy enrollment of over 1000 students.

## **2. CENTRALITY AND COHERENCE TO THE MISSION AND STRATEGIC DIRECTION OF THE UNIVERSITY AND OTHER ACADEMIC UNITS**

The proposed name change of the college is requested due to the fact that fifty percent of the undergraduate enrollments are in the aeronautics program. The inaugural class of Aerospace Engineering began in the fall 2016 semester. As such, the present name College of Applied Engineering, Sustainability, and Technology does not reflect the constituent academic units in the college.

On the engineering side, in August 2016 one of the concentrations in the aeronautics major, Aeronautical Systems Engineering Technology (AESE) earned full accreditation by ABET, making it the only aeronautical/aerospace engineering technology program to be so accredited in the state of Ohio and only the third in the country. Additionally, in fall 2016 the College began offering the first pure engineering curriculum at Kent State in the field of Aerospace Engineering. Further enhancing the argument for a name change to reflect "engineering" in the title, another prominent program in the College, Applied Engineering, offers four concentrations in various engineering technology fields along with a growing concentration in mechatronics. Finally, plans are underway to create a second pure engineering program in the area of mechatronics. Although the current inclusion of "applied engineering" in the name of the college does reflect some of the engineering programs, it does not reflect the two pure engineering programs, titling the College Aeronautics, Engineering and Technology will encompass all programs within the College.

The aeronautics and engineering programs are a very vibrant part of the college and it is important from a market stand point that both be appropriately and accurately represented in the name of the college.

## **3. COMPARATIVE ADVANTAGE VERSUS OTHER STURCTURES**

College level unit is appropriate.

#### **4. UNIT PARTICULARLY APPROPRIATE FOR KENT STATE UNIVERSITY**

With an enrollment of over 1000 students the college has a comparative size to other professional colleges in the university.

#### **5. DEMAND FOR THE UNIT AND FOR THE GRADUATES OF THE UNIT**

The Aeronautics program enrollment has grown significantly over the past decade. It is the only aeronautics program in Ohio, and one of 34 nationwide to be accredited by the Aviation Accreditation Board International (AABI). The program recently brought forth a second undergraduate major, Aerospace Engineering, which is the only such program offered by a public institution in Northeast Ohio. Additionally, the Aeronautical Systems Engineering Technology program earned full accreditation by ABET, making it the only aeronautical/aerospace engineering technology program to be so accredited in the state of Ohio and only the third in the country.

Aeronautics recently established bridge agreements with five regional air carriers, several of which not only guarantees graduates preferential interviews but also guarantees the graduate a job (upon admission and completion of the program). All agreements have been initiated by the regional air carriers with whom the agreements are held; every student that has applied has been accepted.

Ohio ranks fourth across the country for the highest employment level of aerospace engineers, and tenth nationwide for the highest concentration of aerospace engineering jobs and location quotients.

Applied Engineering enrollment has steadily grown over the past few years. As of Fall 2016 15<sup>th</sup> day headcount there are 314 majors in the Applied Engineering degree program. It is anticipated that with the concentrations (Applied Engineering and Technology Management, Computer Engineering Technology, Mechanical Engineering Technology, and Mechatronics) continued growth will occur well into the future.

Recent surveys of graduates from the Applied Engineering program and to employers of these graduates show overall satisfaction with the level of instruction. Employers showed a degree of satisfaction with the level of preparation of the graduates in the program between very good and excellent. The applied engineering program is Foundry Educational Foundation (FEF) certified and has been accredited by FEF since 1969. Students who participate in the Kent State University chapter of the American foundry Society (AFS) are highly sought after upon graduation. One hundred percent of the graduates from the 2015-16 academic year who participated in KSU AFS were employed with an average starting salary of over \$50,000.

#### **6. DUPLICATION AND INTERRELATEDNESS OF THE UNIT'S PROGRAM(S) WITHIN THE UNIVERSITY, STATE AND REGION**

This proposal to change the college's name is to reflect the viability and anticipated growth of current and future programs. The focus of the college is to continue growth in the aeronautics programs and the development of additional pure engineering degrees.

#### **7. EFFICIENCY AND EFFECTIVENESS OF THE UNIT IN LEVERAGING EXISTING RESOURCES AND EXPANDING NEW RESOURCES**

The college programs have been as efficient and effective as possible in leveraging existing resources. With the recent hires in the college and pending searches the college is preparing for future growth and expansion. Over \$1.4 million has been spent upgrading the laboratories in the Aeronautics and Technology building. Transition to a new college name will support solicitation of funds from outside revenue sources to help address other equipment needs by elevating the name and stature of all the college programs. In addition, it may help with naming rights for future academic spaces.

#### **8. ADMINISTRATIVE REPORTING STRUCTURE**

There will be no change in the reporting structure.

#### **9. SPACE AND CAPITAL BUDGET NEEDS**

The name change will not have an effect on space requirements or budget needs. However as the college brings on additional engineering degrees there will be a need for additional laboratories and equipment. There is an immediate need to upgrade the academic facilities at the airport.

#### **10. A PROPOSED OPERATING BUDGET WITH ANY ONE-TIME RESOURCE NEEDS**

Request to change the name of the college has no effect on budget or one-time resource needs. The college has the necessary resources to handle all the incidental cost associated with a name change.

#### **11. EVALUATION PROCEDURES INCLUDING ACADEMIC ASSESSMENT PROCEDURES**

Previously established procedures will not change with the transition to a new name.

#### **12. A TIMETABLE FOR PROPOSAL IMPLEMENTATION**

It is proposed that the effective date of the name change to College of Aeronautics , Engineering and Technology (CAET) coincide with the beginning of the next university fiscal year (July 1, 2017)