**PROGRAM CIP CHANGE REQUEST FORM**

Board of Governors, State University System of Florida

**UNIVERSITY:** Florida Atlantic University, Boca campus
(If applicable, please include the campus)

**PROGRAM NAME:** B.S. Geomatics Engineering --> B.S. Engineering Technology

**DEGREE LEVEL(S):** B.S.E.T.

(B, M, Ed.D., Ph.D., etc)

**OLD/CURRENT CIP CODE**: 14.3801

**NEW/REQUESTED CIP CODE:** 15.9999

**NEW CIP CODE EFFECTIVE TERM:** Fall 2018

(First term for students in the program using the new CIP code)

*Please use this form to notify the Board of Governors, State University System of Florida that an institution intends to change the CIP code for an already existing degree program and begin reporting enrollments and degrees data under the new CIP code. This action will allow for more accurate data analysis of enrollment and degree productivity as well as it will initiate any necessary changes to the articulation manuals and online search tools.*

1. **Provide a short background and rationale for the CIP change request.**

The Department of Civil, Environmental & Geomatics Engineering currently offers undergraduate degree programs in Civil Engineering, Environmental Engineering, and Geomatics Engineering. Low degree productivity for the B.S. Geomatics Engineering, recent changes to the Florida statute requirements for surveying licensure eligibility, retention/pipeline issues, and ABET accreditation changes have prompted the Department to re-examine its degree program and create an Engineering Technology degree.

1. **Explain the impact of the proposed change on the current faculty and current and future students.**

The proposed curriculum for new CIP code largely uses existing courses from the Department of Civil, Environmental & Geomatics Engineering as well as the other degree programs in the College of Engineering and Computer Science. Two existing courses are combined (Geodesy and Satellite Positioning). The net effect is that 2 less core courses are required in the newer program, so faculty will have more flexibility to offer electives. Four existing courses will undergo name changes to better reflect the course content, and the existing capstone course will undergo a minor revision. The new curriculum has more flexibility and was designed to accommodate current students matriculating in the existing CIP code. We anticipate that the new framework will facilitate advising, improve retention, shorten graduation times, and increase degree completions, while the new degree title will be to the advantage of the degree marketability and employment opportunities for graduates. The curriculum is designed to allow students to complete the GIS certificate and the surveying and mapping certificate as well as ensure eligibility for the Fundamentals of Surveying licensing exam and ABET accreditation. With the expansion of technical electives, graduates can choose courses that will increase their likelihood of passing the Fundamentals of Engineering exam, if eligible.

1. **Provide evidence that considerations have been given to the impact of this CIP change on existing programs at the university, and the possibility that the program using the new CIP will duplicate already existing programs at other SUS institutions.**

No negative impact on other programs or other Departments at FAU are foreseen as the requested CIP change only affects the programs housed in a single academic unit. On the contrary, we anticipate a positive impact will be that the new curriculum will help in advising, retention, speed of graduation, and employment prospects. Within the SUS, no engineering technology degree programs currently exist, except at UWF. It is significantly different – in name (General Engineering Technology) and focus (3 tracks – Electrical, Construction, and Instruction). In addition, we have consulted with our partners in the Geosciences Department who have been offering core classes for the B.S.G.E. program since its inception, and we have also consulted with the other departments in the College of Engineering and Computer Science. The proposed curriculum has no change to courses from these other departments, and they see only positive impacts in our continued cooperation and close collaboration.

1. **If applicable, please explain how the CIP change will impact the program’s listing in a Programs of Strategic Emphasis (PSE) category. Please provide a rationale to support the need for the program to be included in a PSE category, if it is not already included in a PSE category.**

The current CIP for the B.S.G.E. program (14.4801) is currently listed as a Program of Strategic Emphasis (PSE). The new CIP code is currently not used in the SUS, but is closely related to 14.0101 (Engineering, General), 15.1001 (Construction Engineering Technology), 15.1005 (unknown), 15.0303 (Electrical, Electronic and Communications Engineering Technology/Technician), 15.1102 (Surveying Technology), 15.1202 (Computer Technology/Computer Systems Technology), 15.1501 (Engineering/Industrial Management). We are working under the assumption that the new curriculum with the new CIP will eventually be included on the PSE list if the CIP change is approved because it combines aspects of construction, computing, general engineering, and surveying engineering technology.

1. **For baccalaureate programs please identify any related changes to the approved common prerequisites and degree program length.**

The existing common prerequisites will be reduced from 7 to 2 as described in the table in question number 6 that follows. All previous common prerequisites can be counted towards the new CIP degree program. In addition, the existing B.S.G.E. program was 120 credits, and the requested curriculum change with the new CIP code has no change to the number of credits required for graduation.

1. **If this is a baccalaureate program, please list the common prerequisites for the current CIP code as listed in the program’s curriculum and the common prerequisites associated with the new CIP code.**

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| **Existing 14.3801** | **Proposed 15.9999** |
| MACX311 or MACX281 (4) | Same - MACX311 or MACX281 (4) |
| MACX312 or MACX282 (4) | Not required but counts toward the math restricted elective (4) |
| MACX313 or MACX283 (4) | Not required |
| MAPX302 or MAPX305 (3) | Not required but counts toward the math restricted elective (3) |
| CHMX045/X045L (4) or CHMX045C (4) or CHSX440/X440L (4) | Not required but counts toward the Physical and Natural Science restricted elective (4) |
| PHYX048/X048L (4) or PHYX048C (4) or PHYX043/X048L (4) | PHYX048/X048L (4) or PHYX048C (4) or PHYX043/X048L (4) is a required course in the major |
| PHYX049/X049L (4) or PHYX049C (4) or PHYX044/X049L (4) | Not required but counts toward the physical and natural science restricted elective (4) |
|  | COPX220 or COPX001 |

**CIP Change Request Form – Signatures Page**

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Signature of Requestor/Initiator Date

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Signature of College Dean/Chair Date

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Signature of President or Vice President for Date

Academic Affairs