Addendum to E&S College P&T Guidelines
Civil, Architectural & Environmental Engineering

Civil Engineering is a broad area that includes Architectural Engineering, and Environmental Engineering. Those are sometimes separate departments at some institutions. Therefore, the criteria for P&T will reflect these variations.

A. **Teaching :**

In general, there a no addendums to the E&S P&T guidelines for Civil and Environmental faculty. AE faculty may teach design studio courses. These courses typically meet 12 hours a week for 3-4 credits. Faculty members that teach these studios are dominated by teaching those courses.

B. Service

The only additional expectation is related to accreditation. As external accreditation requires constant assessment work by all faculty members, all faculty members must demonstrate consistent involvement in creating course evaluation worksheets and program outcome assessment. Performing these activities serves as departmental committee work.

C. Scholarship

CE is cross-disciplinary between the sub-fields of CE and beyond civil engineering. However, the ASCE journals are widely recognized. The journal impact factor is a more effective measure of esteem. Also, the number of citations of their papers could be an alternate proof of the impact of their work, rather than the impact of the journals they have published in. A high level publication is one that either is in an ASCE Journal or other similar journal specific to a sub-field, a journal with a high impact factor, or a paper that has built up several citations.

At minimum, a candidate for tenure must have one high level publication, and a candidate for promotion to full professor must have two. In both cases, additional scholarship must be demonstrated but need not be high level publication. Exception: Architectural Engineering faculty members that teach primarily studio courses have no expectations for high level publication.

Supervising doctoral dissertations counts has medium level scholarship. Supervising master's theses by default counts as low level scholarship but could be supported at higher levels.

The scholarship of Architectural Engineering Faculty shall be evaluated based on whether they are primarily Engineering or Architecture.

Professional licensure or professional practice requirement:

According to the E&S P&T guidelines, two primary purposes of scholarship are 1) to disseminate knowledge, and 2) to keep current in the field. Accreditation of Civil and Architectural Engineering programs requires that faculty members are either professionally licensed or practice professionally. Those purposes match the E&S P&T guidelines. Therefore, by maintaining a professional license, faculty members are demonstrating scholarship. However, this alone counts as low-level scholarship.

Civil Engineering / Architectural Engineering Faculty members: By tenure, these faculty members should be professionally licensed as a professional engineer (PE) and have some practical experience. Environmental Engineering faculty members: Professional licensure and professional practice is not a concern for accreditation of Environmental programs, but still counts as low level scholarship.

Scholarship Examples: Department of Civil, Architectural, and Environmental Engineering, College of Engineering & Science

The preponderance of the evidence of scholarship should be peer-reviewed and research-based in the area of the faculty's expertise, teaching pedagogy, or integration and application. The CES P&T criteria state that promotion to Associate Professor requires at least 1 HIGH and at least 1 MEDIUM publication and promotion to Professor requires at least 4 HIGH publications with 3 of these since promotion to Associate Professor.

Level	Types (from CES Tenure and Promotion Guidelines 4/2016)	Examples for Department of Civil, Architectural, and Environmental Engineering
High	• Peer-reviewed publications in national or international journals in the profession • Peer-reviewed publications in national or international conferences in the profession • Patents granted • Books and book chapters adopted outside of UDM*	• American Society of Civil Engineers journals • Other flagship publications of major organizations (e.g., *American Concrete Institute, American Society for Testing and Materials, Transportation Research Board*) • Education journals (e.g., *American Society for Engineering Educations*) • Funded proposals (as a Principal Investigator) to national or international organizations such as National Science Foundation or National Institutes of Health**
Medium	• Non peer-reviewed publications in national or international journals in the profession • Non peer-reviewed publications in national or international conferences in the profession • Peer-reviewed publications in local or regional journals in the profession • Peer-reviewed publications in regional conferences in the profession • Books and book chapters adopted internally to UDM*	• Poster or oral presentations in the scientific sessions at national conferences (not student sessions) • Funded proposals (as a Principal Investigator) supported by UDM funds or local or regional organizations
Low	• Non peer-reviewed publications in local or regional journals in the profession • Non peer-reviewed publications in regional conferences in the profession • Invited talks • Articles in local media • Interviews with local media	• Poster or oral presentations in the student sessions at national scientific conferences • Poster or oral presentations at local or regional scientific conferences

*The levels listed are for the first edition of a book or book chapter, but subsequent editions are one level lower.

**A funded proposal should not be the only HIGH submission for promotion to Associate Professor