Code # EN04 (2014)

**Bulletin Change Transmittal Form**

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
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**1.Contact Person** (Name, Email Address, Phone Number)

Shivan Haran; [sharan@astate.edu](mailto:sharan@astate.edu); 972 2088

**2.Proposed Change**

Change Pre-requisite and Co-requisite for

ME 4503 Fluid and Thermal Energy Systems

* Pre-requisite:
  + Current: ENGR 3443 Engineering Thermodynamics I, ENGR 3473 Fluid Mechanics
  + Change to: ME 3533 Engineering Thermodynamics II and ME 4553 Heat Transfer
* Co-requisite:
  + Current: ME 4553 Heat Transfer
  + Change to: **None**

**3.Effective Date**

Fall 2015

**4.Justification**

This course requires ME 3533 Engineering Thermodynamics II instead of ENGR 3443 Engineering Thermodynamics I to apply advanced topics on various engineering cycles for term project.  ENGR 3473 Fluid Mechanics is removed because it is already a pre-requisite for ME 4553 Heat Transfer. ME 4553 has been added as a pre-requisite because topics from that course are expanded upon early in the ME 4503 course such that the current co-requisite designation is insufficient for expected student performance.

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**ME 4503. Fluid and Thermal Energy Systems** Analysis and design of components, systems, and processes using the fundamentals presented in Thermodynamics, Fluid Mechanics, and Heat Transfer. **~~Corequisite,~~** **~~ME 4553~~**. Prerequisites, C or better in **~~ENGR 3473 and ENGR 3443~~** **ME 3533 and ME 4553**. Dual listed as ME 5503. Fall.