AERO 4710 Aerospace Design I  
(New)

Catalog Data:  AERO 4710: Aerospace Design I (3) LEC. 2, LAB 3. Pr. AERO 3120. Introduction to the principles required to design aerospace vehicles.


References:  None.

Goals:  This course is designed to expose students to the procedures and techniques for designing aerospace vehicles.

Topics/Laboratory Exercises:
1. Aircraft configurations and types (2 weeks)
2. Take-off weight sizing and sensitivities (2 weeks)
3. Performance constraint analysis (2 weeks)
4. Configuration selection (2 weeks)
5. Cockpit and fuselage layout (1 week)
6. Engine installation (1 week)
7. Wing layout (3 weeks)
8. High lift devices (1 week)
9. Tests (1 week)

Grading:
- Attendance: 0%
- Reports (3): 60%
- Tests (3): 30%
- Final Exam: 10%

100%

Course letter grades are determined by the following conversion scale:

<table>
<thead>
<tr>
<th>Numerical Grade</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>Below 60</td>
<td>F</td>
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</tbody>
</table>
Attendance:

Class attendance is not required. However, students are reminded that lecture material is essential to understand the proper design techniques.

Special Needs:

Any student who requires special accommodations should contact the Director of the Program for Students with Disabilities in 1244 Haley Center (844-2096).

Academic Honesty:

All portions of the Auburn University Student Academic Honesty Code, as found in the Tiger Cub and defined in the SGA Code of Laws, Title XII, will apply in this class.