**Project #1 Title: Enter Project Title Here**

**Project Description (approximately 300 words)**

Please write a short project description that will give the instructor an idea of the motivation, specific challenges/difficulties to be addressed, solution needs (with a focus on TECHNICAL needs), project objectives/goals, and key expected deliverables to be provided at the end of the one year course sequence. Provide your team’s insight into the key PHYSICAL CONSTRAINTS of the problem and PHYSICAL REQUIREMENTS defining the solution. Provide an outline the expected TECHNICAL design and analysis work and expected impact to the outcome of the design. While the description is not expected to be exhaustive, the instructor should be able to give feedback regarding whether this project meets the course requirements.

Be sure that the PROBLEM that the team is trying to solve is emphasized and NOT a particular artifact or device you intend to build. As you learn more about your problem, the form the solution needs to take may change – at this point, you should focus on the needs of the problem

**Project Content Areas (please select all that apply)**

Mechanics/Mechanical Design  Heat Transfer/Thermodynamics  Fluid Mechanics

Controls/Instrumentation  Materials Science

**Project Scope (please select all that apply – specify percentage of total project activity):**

Analytical Design (%)  Computer Aided Design (%)  Simulation (%)

Programming/Coding (%)  Prototyping/Fabrication (%)  Experimental Validation (%)

Other: Please Specify with activity %

**Is this a sponsored project?**

Yes  No

If **YES**, please specify the sponsor: Name of Project Sponsor

**Is this project part of a larger group project involving multiple capstone design groups?**

Yes  No

If **YES**, please specify the team numbers of your collaborating teams and list your respective project scopes: Team Numbers and Scope

**Project Logistics**

1. Are the tools (physical and software) available to students for work on this project?

Yes  No

1. Is there space identified for students to work on this project?

Yes  No

If **YES**, please specify the location of this space:

Location of workspace allocated to students

1. Is there a budget associated with the completion of the project?

Yes  No

If **YES**, please specify the budget: $ Approximate project budget

1. Are there any non-student technical advisors identified to help guide this project?

Yes  No

If **YES**, please specify the names of these advisors:

List Names of Technical Advisors

Have you already received consent from these advisors to help guide this project?

Yes  No

1. Is there an external deadline for the completion of the project deliverable?

Yes  No

If **YES**, please specify the external deadline:

Project Deliverable Deadline

**Project #2 Title: Enter Project Title Here**

**Project Description (approximately 300 words)**

Please write a short project description that will give the instructor an idea of the motivation, specific challenges/difficulties to be addressed, solution needs (with a focus on TECHNICAL needs), project objectives/goals, and key expected deliverables to be provided at the end of the one year course sequence. Provide your team’s insight into the key PHYSICAL CONSTRAINTS of the problem and PHYSICAL REQUIREMENTS defining the solution. Provide an outline the expected TECHNICAL design and analysis work and expected impact to the outcome of the design. While the description is not expected to be exhaustive, the instructor should be able to give feedback regarding whether this project meets the course requirements.

Be sure that the PROBLEM that the team is trying to solve is emphasized and NOT a particular artifact or device you intend to build. As you learn more about your problem, the form the solution needs to take may change – at this point, you should focus on the needs of the problem

**Project Content Areas (please select all that apply)**

Mechanics/Mechanical Design  Heat Transfer/Thermodynamics  Fluid Mechanics

Controls/Instrumentation  Materials Science

**Project Scope (please select all that apply – specify percentage of total project activity):**

Analytical Design (%)  Computer Aided Design (%)  Simulation (%)

Programming/Coding (%)  Prototyping/Fabrication (%)  Experimental Validation (%)

Other: Please Specify with activity %

**Is this a sponsored project?**

Yes  No

If **YES**, please specify the sponsor: Name of Project Sponsor

**Is this project part of a larger group project involving multiple capstone design groups?**

Yes  No

If **YES**, please specify the team numbers of your collaborating teams and list your respective project scopes: Team Numbers and Scope

**Project Logistics**

1. Are the tools (physical and software) available to students for work on this project?

Yes  No

1. Is there space identified for students to work on this project?

Yes  No

If **YES**, please specify the location of this space:

Location of workspace allocated to students

1. Is there a budget associated with the completion of the project?

Yes  No

If **YES**, please specify the budget: $ Approximate project budget

1. Are there any non-student technical advisors identified to help guide this project?

Yes  No

If **YES**, please specify the names of these advisors:

List Names of Technical Advisors

Have you already received consent from these advisors to help guide this project?

Yes  No

1. Is there an external deadline for the completion of the project deliverable?

Yes  No

If **YES**, please specify the external deadline:

Project Deliverable Deadline

**Project #3 Title: Enter Project Title Here**

**Project Description (approximately 300 words)**

Please write a short project description that will give the instructor an idea of the motivation, specific challenges/difficulties to be addressed, solution needs (with a focus on TECHNICAL needs), project objectives/goals, and key expected deliverables to be provided at the end of the one year course sequence. Provide your team’s insight into the key PHYSICAL CONSTRAINTS of the problem and PHYSICAL REQUIREMENTS defining the solution. Provide an outline the expected TECHNICAL design and analysis work and expected impact to the outcome of the design. While the description is not expected to be exhaustive, the instructor should be able to give feedback regarding whether this project meets the course requirements.

Be sure that the PROBLEM that the team is trying to solve is emphasized and NOT a particular artifact or device you intend to build. As you learn more about your problem, the form the solution needs to take may change – at this point, you should focus on the needs of the problem

**Project Content Areas (please select all that apply)**

Mechanics/Mechanical Design  Heat Transfer/Thermodynamics  Fluid Mechanics

Controls/Instrumentation  Materials Science

**Project Scope (please select all that apply – specify percentage of total project activity):**

Analytical Design (%)  Computer Aided Design (%)  Simulation (%)

Programming/Coding (%)  Prototyping/Fabrication (%)  Experimental Validation (%)

Other: Please Specify with activity %

**Is this a sponsored project?**

Yes  No

If **YES**, please specify the sponsor: Name of Project Sponsor

**Is this project part of a larger group project involving multiple capstone design groups?**

Yes  No

If **YES**, please specify the team numbers of your collaborating teams and list your respective project scopes: Team Numbers and Scope

**Project Logistics**

1. Are the tools (physical and software) available to students for work on this project?

Yes  No

1. Is there space identified for students to work on this project?

Yes  No

If **YES**, please specify the location of this space:

Location of workspace allocated to students

1. Is there a budget associated with the completion of the project?

Yes  No

If **YES**, please specify the budget: $ Approximate project budget

1. Are there any non-student technical advisors identified to help guide this project?

Yes  No

If **YES**, please specify the names of these advisors:

List Names of Technical Advisors

Have you already received consent from these advisors to help guide this project?

Yes  No

1. Is there an external deadline for the completion of the project deliverable?

Yes  No

If **YES**, please specify the external deadline:

Project Deliverable Deadline