

# Peer Evaluation and Final Exam

EECE401 Senior Design I

Electrical and Computer Engineering  
Howard University

- Peer Evaluation
- Final Exam

# Team --- Review

- Team
  - Composed of ( )
  - With ( ) **skills**
  - Committed to **Performance** ( )
  - Holding each **Mutual** ( )



- Effective Team Output:
  - Productivity in ( )”
  - morale through ( ) building
- Key to Success
  - ( ) between ( ) and



## Peer Evaluation – Rationale

- **What?**
  - Evaluation of each team member's ( ) to the team in terms of Task Achievement and Relationship Building
- **Why ?**
  - **Encouragement of Team Playing** (through Expectation, rules, and commitment)
  - **Fair awarding** of team members **by their contributions**
- **How?**
  - Each member rate other team members and fill out **a form individually** (in the form of **bonus** distribution)
  - The submitted evaluation forms and results **are kept confidentially** by the advisor or the **instructor**.
  - But will be **used in grading**
  - Each member submits the form via **email**.

## Peer Evaluation Items

- Task-related contribution items
  - 1. Completes assigned works before due
  - 2. Attends meetings with completed works and arrives on time.
  - 3. Brings and generates creative ideas to the team
- Relationship-related contribution items
  - 4. Supports and respects other members' efforts and opinions
  - 5. Is responsible and accessible
  - 6. Keeps the team's morale high and strong

**Peer Evaluation Form**

Senior Design Class

<b>Date</b>	
<b>Your team name</b>	
<b>Your name (evaluator)</b>	

**Bonus distribution (as Peer Evaluation)**  
 You have \$100 for each row to distribute your team members (except yourself). So the sum on the column I must be \$100.

<b>Exclude yourself in Evaluation</b>		<b>Last Names only</b>					
#	Member last names HERE -->	Name1	Name2	Name3	Name4	Name5	Name6
		Peter	Toni	Katie			
<b>Task-related contribution items</b>							
1	Completes assigned works before due						0
2	Attends meetings with completed works and arrived on time						0
3	Brings and generates creative ideas to the team						0
	Task Total	0	0	0			
<b>Relationship-related contribution items</b>							
4	Supports and respects other members' efforts and opinions						0
5	Is responsible and accessible						0
6	Keeps the team's morale high and strong						0
	Relationship Total	0	0	0			
	<b>Grand Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

# Peer Evaluation - Example (for a 4-person team)

Peer Evaluation Form							
Senior Design Class							
Date							
Your team name							
Your name (evaluator)							
<b>Bonus distribution (as Peer Evaluation)</b>							
You have \$100 for each row to distribute your team members (except yourself). So the sum on the column I must be \$100.							
<b>Exclude yourself in Evaluation</b>		<b>Last Names only</b>					
		<b>Name1</b>	<b>Name2</b>	<b>Name3</b>	<b>Name4</b>	<b>Name5</b>	<b>Name6</b>
#	<b>Member last names HERE --&gt;</b>	Peter	Toni	Katie			
<b>Task-related contribution items</b>							
1	Completes assigned works before due	30	40	30			100
2	completed works and arrived on time	35	30	35			100
3	Brings and generates creative ideas to the team	30	40	30			100
	Task Total	<b>95</b>	<b>110</b>	<b>95</b>			
<b>Relationship-related contribution items</b>							
4	Supports and respects other members' efforts and opinions	25	35	40			100
5	Is responsible and accessible	20	40	40			100
6	Keeps the team's morale high and strong	30	40	30			100
	Relationship Total	<b>75</b>	<b>115</b>	<b>110</b>			
	<b>Grand Total</b>	<b>170</b>	<b>225</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Peer Evaluation - Example (for a 4-person team)

- **Alternative Format (or no-format)**

- Any format is possible if the necessary information is included

	Peter	Toni	Katie
#1	30	40	30
#2	35	30	35
#3	30	40	30
sub1	95	110	95
#4	25	35	40
#5	20	40	40
#6	30	40	30
sub2	75	115	110
TOTAL	170	225	205

# Course Grading

- Individual Score (I): 30% + 5%
  - **Attendance (5 %) EXTRA**
  - Ethics Essay (10 %)
  - Final Exam (10%)
  - Team Participation (-graded by team leader) (10 %)
- Team Score (G): 70%
  - Team Assignments: Solution Design Process –
    - Team contract(5)
    - Problem Statement (5)
    - Design Requirements (10)
    - Solution Design 5 steps (25): 5 + 10 + 10
    - Solution Design Presentation (20 %)
    - In-class team/individual activities (5 %)
- Peer Evaluation Score (P):
- Final Score (F)
  - $F = I + G * P$

⌘ Grades	
☒	A: 90 – 100
☒	B: 80 – 89
☒	C: 70 – 79
☒	D: 60 – 69
☒	F: 0 - 59



# Final Exam

## In-person in-class paper-pen exam

- **Section 1 (50 pts): from the Lectures**
  1. Definition of Engineering Design
  2. Three major processes of engineering design
  3. Team, team success, and team building
  4. Solution Generation Process
  5. Engineering Ethics
- **Section 2 (50 pts): from your own project**
  1. Problem Statement
  2. Design Requirements – Product specification
  3. Design Requirements - Standards, Social, cultural, environmental, constraints (limitations)
  4. Decision-Making process for top solution design from 2 design ideas
  5. Final Solution Design – Patent formatted description

# Timeline/Deadline

(T) Oct 22	Solution Generation: Steps 1 and 2
(T) Nov 5	Solution Generation: Steps 3 and 4
(T) Nov 12	Solution Generation: Step 5
(M) Nov 18	<b>Solution Presentation - 1</b>
(T) Nov 19	Ethics Essay
(M) Nov 25	<b>Solution Presentation - 2</b>
(M) Dec 2	<b>Final Exam</b> (1 – 3 pm) at 3105 LKD
(T) Dec 3	<b>Peer Evaluation Submission due (via email)</b>