

• Formulated team based on

project

□ 5 -

Exceptional

required expertise/relevance to

□ 4 – Very

Good

STUDENT:

solutions to

products and processes to improve human

health

complex technical

problems and/or

the design of new

College of Engineering

Department of Biomedical Engineering

their project

☐ 1 - Remedial

□ 2 – Needs

Satisfactory improvement

DATE OF EXAM: _____

MATRICULATION SE	MESTER/YEA	R:			
PROGRAM: M.S. (Th	esis)				
MILESTONE: THESI	IS DEFENSE				
CRITERION	EXCEP	TIONAL	SATIS	FACTORY	REMEDIAL
1. Conceiving, designing, analyzing, and implementing research systems, processes and experiments related to improving human health and healthcare.	Able to analyz with a critical experimental deractionally designation and the context of th	e the literature ye concise and clear m ces his/her work ts, typically yledge from s toward his/her k the field at p and explain an esigns that are ned toward otheses based on a ors & limitations ridence for wer analysis] future possible endations ret results sistently bjective	Explains results with some property with some property occasionally a knowledge from the sound occasionally a sound	search problem compting cability to place ger context; able to integrate com other sources work or field at ign but unable to n it, some rrelevant ces ag of rationale compting to apply lem cassistance in ctive ns of data;	Demonstrates general trust in all published literature Unable to place body of work into the big picture; difficulty integrating knowledge from multiple sources toward his/her own work or the field at large Unable to form a clear research problem Unable to formulate a hypothesis/design an experiment Cannot detect his/her study's limitations and errors Makes vague statements regarding analysis approaches with no clear tie to question Unable to defend statements
	☐ 5 - Exceptional	☐ 4 – Very Good	☐ 3 - Satisfactory	☐ 2 – Needs improvement	☐ 1 - Remedial
2. Functions in	• Demonstrates		•	nce of teamwork	Has never worked in or
multi-disciplinary	evidence of wor			acking in some	attempted to form a
teams to find	multidisciplina			ertise for project	multidisciplinary team for

3. Using modern analytical, simulation, and diagnostic tools and techniques used in healthcare industry		lation/diagnosti commonly used		mulation/diagno t are commonly	Lack of knowledge or ability to utilize analytical/simulation/diag nostic tools that are commonly used in the healthcare industry
4. In-depth and up-to-date knowledge within a specialized field in Biomedical Engineering	answers on BM approaches/me ples without pr • Able to use ne	echanisms/princi ompting	structural/fa prompting to engineering p solve a biolog	lain the stem and principles at the ctual level; needs outilize principles to gical problem ome prompting to v material to	■ 1 - Remedial • Fails to articulate simple concepts in cell/tissue or physiology • Unable to explain how bio events inform design • Unable to explain a biological system at its functional level • Knows biological facts but can't apply at engineering/quantitative level • Unable to solve basic engineering problems • Unable to deal with or incorporate new
5. An understanding of ethical and professional	□ 5 - Exceptional • Able to clearly potential ethicato research	☐ 4 – Very Good varticulate l issues relating	☐ 3 - Satisfactory • Requires pridentify ethic to research	□ 2 – Needs improvement compting to cal issues relating	 information □ 1 - Remedial • Unable to articulate concepts of ethics and responsibility as it relates to research
responsibility 6. To effectively communicate their findings/ideas to a technical and non-technical audience	is transparent & Offers only reinformation Engages commelarification pro Able to restate own words Easily uses tet terminology an make points	levant, targeted mittee in the ocess e question in chnical d concepts to	is not particular or easy to follow offers most relevant information. Is aware of terminology connecting it	ely targeted, rmation technical but has difficulty to explanations	■ 1 - Remedial • Rambles and sidesteps the question • Unable to make list of clear goals and questions • Responds to different question than asked
	☐ 5 - Exceptional	□ 4 – Very Good	□ 3 - Satisfactory	☐ 2 – Needs improvement	□ 1 - Remedial

		of ≥3 in all categories required for pass category is an automatic fail	
inal Outcome	□ Pass	☐ Pass (with contingency) * see recommendations for future actions	□ Fail
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dvisory/Diss	ne (Chair)	nittee	Date
	ne (Chair)		Date Date
Type or print nam	ne (Chair) name	Signature (Chair)	
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