

APPLICATION FOR ADMISSION TO THE DOCTORAL QUALIFYING EXAM

FIELD EXAM – January 30 & 31, 2017, 8:30 am – 6:00 pm, Rooms TBA

Name: _____ Email: _____

Phone: _____ Current GPA: _____

MIT Research Advisor: _____

Select one field and, if applicable, indicate the elective content you have selected for the field exam:

____ **Aerospace Computational Engineering** – Core plus one:

- A. ____ Fluid Mechanics
- B. ____ Mechanics of Solid Materials
- C. ____ Numerical Linear Algebra
- D. ____ Optimization Methods
- E. ____ Probability

____ **Communications and Networking** – Select three:

- A. ____ Applied Probability
- B. ____ Data Networks
- C. ____ Principles of digital communication
- D. ____ Principles of wide bandwidth comm
- E. ____ Stats for Engineering and Scientists

____ **Aerospace, Energy & the Environment**

____ **Controls** – No elective content

____ **Air-breathing Propulsion** – Core plus one:

- A. ____ Compressible Flow
- B. ____ Internal Flow in Turbomechanics

____ **Humans in Aerospace** – Core plus one:

- A. ____ Aerospace Biomedical Engineering
- B. ____ Humans and Automation

____ **Aircraft Systems Engineering** – Core plus two:

- A. ____ Aerodynamics
- B. ____ Aircraft Instrumentation
- C. ____ Aircraft Propulsion
- D. ____ Aircraft Stability and Control
- E. ____ Aircraft Structures
- F. ____ Human Factors
- G. ____ Software Systems

____ **Materials and Structures** – No elective content

____ **Space Propulsion** – No elective content

____ **Space Systems** – Core plus one:

- A. ____ Space Policy
- B. ____ Space System Arch & Design
- C. ____ Space System Engineering
- D. ____ System Safety

____ **Air Transportation Systems** – No elective content

____ **Autonomous Systems** – Core plus one:

- A. ____ Cognitive Robotics
- B. ____ Stochastic Estimation & Control

- FORM CONTINUES ON REVERSE SIDE -

Student Signature

Date

Faculty Endorsement: I endorse the above student's application for admission to the Department of Aeronautics and Astronautics Doctoral Qualifying Exam.

I will submit the separate recommendation form (email or hard copy) to Beth Marois no later than Monday, January 9, 2017.

I will make a presentation of the candidate's academic achievements at the faculty review following the examinations, as an advocate of the candidate, and will communicate the decision of the faculty to the candidate following the evaluation meeting. I understand that serving as endorser does not commit me to serve as the doctoral advisor, but does signify my belief that the student has the potential to successfully complete the doctoral program.

Signature of Faculty Member

Date

Please complete and return to Beth Marois, Room 33-202A, no later than **Friday, November 18, 2016**