TSM - Advising CHECKLIST-Spring (2021)
Student Name ___________________________
ID: __________________ GPA ____________
DATE: ____________ Advisor: ________________________

A. Natural Science courses
One of the following sequences:

   a. PHY 131 and PHY 132, 134, Classical Physics I, II and labs
      Note: The following alternate physics course sequences may be substituted
      PHY 131-133 and 132-134.
      PHY 121-123, and 122-124
      PHY 125, 126, 127
      PHY 141,142

   b. BIO 201, the Living World, and BIO 204, Fundamentals
      of Biology: Organisms to Ecosystems

   c. CHE 131,132,133, General Chemistry I, II and lab OR
      CHE 141,142,143, General Chemistry I, II Honors and lab

   d. GEO 102,112, the Earth/Physical Geology Lab and
      GEO 311, Geoscience and Global Concerns, or GEO 313
      Understanding Water Resources, or GSS 313, Fundamentals sect 1 & 2.

   e. BIO 201, Principles of Biology: Organisms to Ecosystems
      and one of the following:
      GEO 101, Environmental Geology
      MAR 104, Oceanography
      EST 102, 103 Weather and Climate
      ENS 101, Prospects for Planet Earth

B. Mathematics courses
   —— AMS 151, Applied Calculus I
   —— AMS 161, Applied Calculus II

OR the following alternate calculus course sequences may be substituted
   —— MAT 125, MAT 126, MAT 127, OR
   —— MAT 131, MAT 132, OR
   —— MAT 141, MAT 142

C. Study in Related Areas - Specialization
   A cluster of seven related courses, totaling at least 21
   credits, in one area of natural science, engineering, applied
   science, or environmental studies from a single department or
   program. At least three courses, totaling at least nine credits,
   must be at the 300 or 400 level.

   ____________ Area of Specialization

D. Upper Division Writing Requirement
   All degree candidates must demonstrate skill in written English at a
   level acceptable for technological systems management majors. This
   requirement will be satisfied in EST 304 and most of the upper
   division courses.

E. TSM Requirements
   Any course taken to fulfill the required courses cannot be used to
   satisfy the elective or specialization area. ALL COURSES MUST
   BE TAKEN FOR LETTER GRADE of C OR BETTER.

F. Eleven required courses:
   —— EST 194 Decision Making (Sp,S) QPS
   —— EST 202 Intro to Science, Tech and Society Studies (F)

   TECH
   —— EST 304, Comm. for Engineers & Scientists (F,Sp,S)
   —— EST 331, Prof Ethics & Intellectual Property (F,S)
   —— STAS 391, Technology Assessment (F,W,Su)
   —— STAS 392, Engineering & Managerial Economics (Sp, S)
   —— STAS 393, Project Management (Sp)
   —— EST 440, Interdisciplinary Research Methods (F, Sp) EXP+
   —— EST 441, Interdisciplinary Senior Project (F, Sp) EXP+

   One skills-information course chosen from the following:
   —— EST 305, App Software for Info Mgmt (Sp,S)
   —— EST 325, Tech in the Workplace (online) (W,Sp,S)
   —— EST 326, Mgmt for Engineers (S)
   —— EST 339, Benevolent Computing (Sp)
   —— EST 364, How to Build a Startup (F,Sp) EXP+

   One design course chosen from the following:
   —— EST 205, Introduction to Tech Design (F,Sp,S) TECH
   —— EST 207, Integration Design (S) TECH
   —— EST 209, Intro to IT Design (Italy summer) TECH
   —— EST 221, Design Produce, Dev Multimedia (Sp) TECH
   —— EST 310, Design of Computer Games (F,S) TECH
   —— EST 323, Human Computer Interaction (Sp)

   Three elective courses chosen from the following:
   —— EST 205, Introduction to Tech Design (F,Sp,S) TECH
   —— EST 207, Integration Design (Sp,S) TECH
   —— EST 209, Intro to IT Design (Italy summer) TECH
   —— EST 221, Design Produce, Dev Multimedia (Sp) TECH
   —— EST 280, Fundamentals of Ind Eng (S)
   —— EST 305, Applications Software for Info Mgmt (Sp,Su)
   —— EST 310, Design of Computer Games (F,S) TECH
   —— EST 320, Comm. Tech Systems (online) (W,Sp,S)
   —— EST 323, Human Computer Interaction (Sp)
   —— EST 325, Tech in the Workplace (online) (W,Sp,S)
   —— EST 326, Management for Engineers (S)
   —— EST 327, Marketing for Engineers (S)
   —— EST 339, Benevolent Computing (Sp)
   —— EST 342, Operation Research (S) QPS
   —— EST 364, How to Build a Startup (F,Sp) EXP+
   —— EST 475, 488, 499, one counts 1 time for major/minor EXP+

   Other 300/400 level courses in the area of specialization are
   allowed upon the approval of the TSM advisor

Matrix for all the required courses:

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<td>Senior</td>
<td>Skill, 440</td>
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392,391,393,440,441 must be taken in this sequence if majoring

Undergrad Director: Kevin Moriarty, 1423 Computer Science, 632-1898, Kevin.Moriarty@stonybrook.edu

Advisor: Rita Reagan Redko, 1425 Computer Science, 632-1057, Rita.Reagan-Redko@stonybrook.edu

Advisor: Carrie-Ann Miller, 1424 Computer Science 632-9648, Carrie-Ann.Miller@stonybrook.edu