

# SUNY Korea TSM

## Advising CHECKLIST

Student Name \_\_\_\_\_  
 ID: \_\_\_\_\_ GPA: \_\_\_\_\_  
 DATE: \_\_\_\_\_ Advisor: \_\_\_\_\_

### A. Natural Science courses

One of the following sequences:

- \_\_\_\_ a. PHY131 and PHY 132, 134 Classical Physics I, II and labs
- \_\_\_\_ b. BIO 201 the Living World, BIO (202 or 203) and BIO 204
- \_\_\_\_ c. BIO 201 Principles of Biology: Organisms to Ecosystems

\*\*\*And one of the following:

- \_\_\_\_ GEO 101 Environmental Geology
- \_\_\_\_ MAR 104 Oceanography
- \_\_\_\_ ATM 102 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 123, MAT 126, MAT 127] OR [MAT 131, MAT 132] OR [MAT 141, MAT 142] OR [MAT 171]

### C. TSM Requirements

\*Completion of the major requires approximately 79 out of 120 accumulated credits

Any course taken to fulfill the required courses cannot be used to satisfy the elective area.

**ALL COURSES MUST BE TAKEN FOR LETTER GRADES**  
**Eleven required courses:**

- \_\_\_\_ EST 192 Introduction to Modern Engineering
- \_\_\_\_ EST 194 Patterns of Problem Solving
- \_\_\_\_ EST 202 Intro to Science, Tech and Society Studies
- \_\_\_\_ EST 305 Applications Software for Information Mgmt
- \_\_\_\_ EST 326 Management for Engineers
- \_\_\_\_ EST 327 Marketing for Engineers
- \_\_\_\_ EST 391 Technology Assessment
- \_\_\_\_ EST 392 Engineering and Managerial Economics
- \_\_\_\_ EST 393 Project Management
- \_\_\_\_ EST 440 Interdisciplinary Research Methods
- \_\_\_\_ EST 441 Interdisciplinary Senior Project

**(If 192 & 194 are waived then you must take 304 & 320)**

**Must take Three Elective courses chosen from the following:**

- \_\_\_\_ EST 200 Cultural Technologies and Society
- \_\_\_\_ EST 204 Modern Digital Tech Infrastructure
- \_\_\_\_ EST 205 Introduction to Tech Design
- \_\_\_\_ EST 207 Interaction Design
- \_\_\_\_ EST 208 Virtual Distance Foundations: Collaborating Across Boundaries in the Digital Age
- \_\_\_\_ EST 240 Visual Rhetoric and Information Technology
- \_\_\_\_ EST 304 Communication for Engineers and Scientists
- \_\_\_\_ EST 306 Cloud Computing Applications
- \_\_\_\_ EST 310 Design of Computer Games
- \_\_\_\_ EST 323 Human Computer Interaction
- \_\_\_\_ EST 325 Tech in the Workplace
- \_\_\_\_ EST 330 Natural Disasters: Societal Impacts and

Technological Solutions

- \_\_\_\_ EST 331 Professional Ethics and Intellectual Property
- \_\_\_\_ EST 488 Internship in TSM(SBU)
- \_\_\_\_ EST 475 Undergraduate Teaching Practicum or EST 499 Research Technology and Society

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

### 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.

#### ■ ICT Specialization

(7 courses = 5 ICT courses + 2 CSE courses, at least 3 courses, totaling 9 credits, must be at the 300 or 400 level)

#### \*List of 5 ICT courses

- \_\_\_\_ EST 230 ICT for Sustainable Development (FA & SP)
- \_\_\_\_ EST 320 Communication Technology Systems (SP)
- \_\_\_\_ EST 364 How to Build a Startup (FA)
- \_\_\_\_ EST 371 Data Science Management (FA)
- \_\_\_\_ EST 372 The Mobile Revolution in Development (SP)

#### ■ CS Specialization

(7 CSE courses - at least 3 courses, totaling 9 credits, must be at the 300 or 400 level)

- \_\_\_\_ CSE \_\_\_\_\_
- \_\_\_\_ CSE \_\_\_\_\_
- \_\_\_\_ CSE \_\_\_\_\_
- \_\_\_\_ CSE \_\_\_\_\_
- \_\_\_\_ CSE 300 or 400 level \_\_\_\_\_
- \_\_\_\_ CSE 300 or 400 level \_\_\_\_\_
- \_\_\_\_ CSE 300 or 400 level \_\_\_\_\_

#### ■ AMS Specialization

(7 AMS courses)

- \_\_\_\_ AMS 151 Applied Calculus I
- \_\_\_\_ AMS 161 Applied Calculus II
- \_\_\_\_ AMS 210 Applied Linear Algebra
- \_\_\_\_ AMS 261 Applied Calculus III
- \_\_\_\_ AMS301 Finite Mathematical Structures
- \_\_\_\_ AMS 310 Survey of Probability and Statistics
- \_\_\_\_ AMS 315 Data Analysis

#### Matrix for all the required courses:

	1 <sup>st</sup> semester	2 <sup>nd</sup> semester
Freshman	192	194
Sophomore	202	305, <b>392</b>
Junior	326, <b>391</b>	327, <b>393</b>
Senior	<b>440</b>	<b>441</b>

*391,393,440,441 must be taken in this sequence*

#### Graduate & Department Administration

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 Please schedule an appointment either visiting A201 office or emailing