

**Chapter Bylaws**  
**Indiana Gamma Chapter**  
**The Tau Beta Pi Association**  
**January 31, 2016**

Purpose: It is the purpose of the Tau Beta Pi Engineering Society to honor those who have distinguished themselves by scholarship, integrity, breadth of interest, adaptability and unselfish activity and to continue to do honor to both their alma mater society and their profession throughout their lifetime.

Bylaw One

GENERAL

Section 1: These bylaws shall govern the proceedings of this Chapter in all matters not specifically provided for in the Constitution and Bylaws, and in the Convention Acts of the Tau Beta Pi Association.

Section 2: This Chapter shall conform to such rules and regulations of the University of Notre Dame and the College of Engineering as may apply to honor societies.

Section 3: It is the purpose of the Society to mark in a fitting manner those who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as students, or by their attainments as alumni.

Section 4: It shall be the duty of the officers of the this Chapter to effect a suitable solution in the event of a conflict between the Constitution and Bylaws of the Tau Beta Pi Association and the rules and regulations of the College of Engineering and the University of Notre Dame. The officers will give precedence to the college.

Bylaw Two

GOVERNANCE

Section 1: The officers of this Chapter shall be a President, Vice-President, Corresponding Secretary, Treasurer, Recording Secretary, Cataloguer, Director of Tutoring, Director of Communication, and Director of Membership, who shall be active members. The officers may be graduate or undergraduate students at the University of Notre Dame only; with the provision that no less than half of the officers be undergraduate students. These officers shall serve for a one year term, but may be reelected for one additional year.

Section 2: The Chapter's Advisory Board may consist of a President, Vice-President, and the Secretary of the Chapter and up to four alumnus advisors elected by the Chapter.

Section 3: All advisors must be approved by a majority of all active members, and must be selected on an annual basis. The chief advisor must be a full-time faculty or administrative staff member at the University of Notre Dame. Advisors are ex-officio members of the Chapter and have no voting rights with the Chapter. The duties of the advisors shall be to see that the Chapter:

- (1) Selects candidates who meet the eligibility requirements of Constitution Articles VIII, the bylaws of the Chapter, and the academic regulations of the host institution,
- (2) Balances its financial accounts and pays all bills by the end of the academic year,
- (3) Effects an orderly transition of Chapter officers in accordance with the Association's Bylaws.

Section 4: Graduate advisors follow the same rules and duties as faculty advisors, as stated in Bylaw II, Section 3.

Section 5: The president shall be the Chapter's representative to the Engineering Leadership Council and the National Convention of the Association. The alternates will be the other officers in the following order: Vice-President, Corresponding Secretary, and then remaining officers on a volunteer basis. In the event of any other activities requiring official representation of the Chapter, the President shall appoint delegates from the active membership.

### Bylaw Three

#### MEETINGS

Section 1: The following meetings shall be scheduled and held at least once in the academic year: organization meeting, planning meeting, preliminary consideration of candidates, election of candidates, and formal initiation of candidates and banquet/reception.

Section 2: The first meeting of each semester shall be within three weeks of the start of that semester.

Section 3: A meeting shall be scheduled and held once each year for the election of officers.

Section 4: A quorum for any meeting shall be as set forth in the Association Bylaws.

Section 5: The president of the chapter may call additional meetings at any time, provided 10 days notice has been given.

Section 6: In special circumstances, the president can call an emergency meeting without the normal 10 days notice with the approval of the Advisory Board.

Section 7: Business that can be transacted more easily by email will be decided by the president with the approval of the Advisory Board.

#### Bylaw Four

### ELECTION OF OFFICERS

Section 1: The election of officers shall be in the spring semester no later than spring break.

Section 2: The new officers may take office at an optional change-of-command meeting to be held within two weeks following the election. This change-of-command ceremony shall be as prescribed by the national organization.

Section 3: The entire active membership is eligible to vote for each of the officers individually. All candidates for each office shall be nominated by one member and must be seconded by another member. The winning candidate for each office must achieve 50% of the vote of active members present. If no candidate achieves 50% on the first vote, the top two candidates will hold a runoff election.

Section 4: Any vacancy arising due to resignation or graduation of an officer shall be filled by special election at the next business meeting. This business meeting shall be held within two weeks of the officer leaving. A majority of the active members present shall be required to elect.

Section 5: In the event that an officer is judged to be deficient in his/her duties (as decided by a unanimous agreement of the other club officers and advisors), he/she may be removed by a two-thirds vote of the club's membership. The Chief Advisor shall oversee the impeachment process to ensure a fair and democratic process. The club shall then follow the guidelines set forth in the Association Bylaws.

#### Bylaw Five

### COMMITTEES

Section 1: The President shall appoint the chair and members of all required and ad-hoc committees of the Chapter.

Section 2: The duties of all committees shall be decided by the President along with each committee chair and reports of each committee from previous years. It shall be the duty of each

committee chair to submit a written report in duplicate of their activities at the end of their leadership.

### Bylaw Six

#### FINANCES

Section 1: The one time initiation fee for this Chapter shall be set each year by the Advisory Board according to the guidelines established by the Association Bylaws. The treasurer must provide an initiate with an itemized listing of the initiation fee if requested.

Section 2: The initiation fee will be paid by each initiate before the actual initiation takes place, unless other provisions have been agreed to by the Chapter Treasurer and the Chief Advisor.

Section 3: The Treasurer will audit the books each May, with the Advisors of the chapter and the newly elected Treasurer.

Section 4: All Chapter books and financial transactions will be closed and completed by May 1 of each year. At this time, the newly elected Treasurer will also file with the Director of Internal Revenue of this district, as provided by law of the United States Congress as well as all appropriate forms recognized by the national office.

### Bylaw Seven

#### ELECTION OF NEW MEMBERS

Section 1: The election of new members should take place in the latter part of both the fall and spring semesters.

Section 2: The following items shall govern the election of new members:

1. Undergraduate students must be enrolled in the following academic programs in the College of Engineering. Those eligible for election are: aerospace engineering, mechanical engineering, chemical engineering, computer engineering, computer science, electrical engineering, civil engineering, environmental engineering.
2. The Chapter may choose to elect graduate students enrolled in the following academic programs of the Graduate School's Division of Engineering are eligible for election: aerospace and mechanical engineering, chemical and biomolecular engineering, civil engineering and geological sciences, computer science and engineering, electrical engineering.

3. Graduate students will be eligible if they have been in residence for more than 1 semester and have completed at least 50% of their degree requirements, including coursework and research, as determined by the student's primary academic advisor. It is the responsibility of the officers and the Advisory Board to decide whether or not graduate students will be elected for each academic year.
4. Prospective members will be notified of their eligibility by the President.
5. The prospective member will be required to perform a certain number of hours of community service determined by the Advisory Board.
6. The quorum for the election of new members shall be three fourths of the active membership.
7. Those candidates not elected on the first ballot will be reconsidered for membership by a second ballot. Those candidates not elected on the second ballot may be considered for a third and final ballot if twenty-five percent of the voting members so request.
8. A member's ballot (i.e. all ballots cast by the member including the first and second ballot) will be disqualified if that member is not present for all three considerations of the candidates.
9. No member may 'leave' their vote with another member or vote by proxy. The member must be physically present for their ballot to be valid.
10. The President shall notify each candidate by mail or email of their election or rejection by the Society immediately following the close of elections.

## **UNDERGRADUATE:**

### **Aerospace Engineering**

#### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

#### **Sophomore Year**

*First Semester (17.5 credits total)*

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

AME 20221. Mechanics I (3)

AME 20211. Introduction to Aeronautics (3)

AME 20214. Introduction to Engineering Computing (1)

Arts and Letters course (3)

*Second Semester (17.5/16.5 credits total)*

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

AME 20222. Mechanics II (3)

AME 20241. Solid Mechanics (4)

AME 20231. Thermodynamics (3)

AME 20213. Measurements and Data Analysis (4)

or AME 30361. Computer Aided Design and Manufacturing (3)

#### **Junior Year**

*First Semester (16/15 credits total)*

AME 30314. Differential Equations, Vibrations and Controls I (3)

AME 20213. Measurements and Data Analysis (4)  
or AME 30361. Computer Aided Design and Manufacturing (3)  
AME 30341. Aerospace Structures (3)  
AME 30331. Fluid Mechanics (3)  
Arts and Letters course (3)

*Second Semester (16 credits total)*

AME 30315. Differential Equations, Vibrations and Controls II (3)  
AME 30333. Theoretical and Experimental Aerodynamics (4)  
AME 30332. Compressible Aerodynamics (3)  
AME 30334. Heat Transfer, (3)  
or AME 30381. Orbital and Space Dynamics (3)  
Arts and Letters course (3)

**Senior Year**

*First Semester (15 credits total)*

AME 40461. Flight Mechanics and Introduction to Design (3)  
AME 40451. Aerospace Dynamics (3)  
AME 40431. Gas Turbines and Propulsion (3)  
Technical Specialization (3)  
Arts and Letters course (3)

*Second Semester (16 credits total)*

AME 30381. Orbital and Space Dynamics (3)  
or AME 30334. Heat Transfer (3)  
AME 40462. Aerospace Design (4)  
Technical Specialization/Prof. Development (3)  
Technical Specialization (3)  
Arts and Letters course (3)

## **Mechanical Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 credits total)*

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

AME 20221. Mechanics I (3)

CBE 30361. Science of Engineering Materials (3)

AME 20214. Introduction to Engineering Computing (1)

Arts and Letters course (3)

*Second Semester (17.5/16.5 credits total)*

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

AME 20222. Mechanics II (3)

AME 20241. Solid Mechanics (4)

AME 20213. Measurements and Data Analysis (4)

or AME 30361. Computer Aided Design and Manufacturing (3)

AME 20231. Thermodynamics (3)

### **Junior Year**

*First Semester (15 credits total)*

AME 30314. Differential Equations, Vibrations and Controls I (3)

AME 20213. Measurements and Data Analysis (3)

or AME 30361 Computer Aided Design and Manufacturing (3)



AME 30331. Fluid Mechanics (3)  
AME 40423. Mechanisms and Machines (3)  
Arts and Letters course (3)

*Second Semester (16 credits total)*

AME 30315. Differential Equations, Vibrations and Controls II (3)  
AME 30334. Heat Transfer (3)  
AME 30363. Design of Machine Elements (3)  
EE 20222. Introduction to Electrical Engineering and Embedded Systems (4 )  
Arts and Letters course (3)

***Senior Year***

*First Semester (15 credits total)*

AME 30362. Design Methodology (3)  
AME Technical Elective (3)  
AME Technical Elective (3)  
Technical Elective (3)  
Arts and Letters course (3)

*Second Semester (16 total credits)*

AME 40463. Senior Design Project (4)  
AME Elective (3)  
AME Elective (3)  
Technical Elective (3)  
Arts and Letters course (3)

## **Chemical Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 credits total)*

MATH 20550. Calculus III (3.5)

CHEM 10172. Organic Chemistry (3)

CHEM 11172. Organic Chemistry Lab I (1)

PHYS 10320. General Physics II (4)

CBE 20255. Introduction to Chemical Engineering Analysis (3)

Arts and Letters Course (3)

*Second Semester (16.5 credits total)*

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

CHEM 20273. Organic Chemistry II (3)

CBE 20260. Chemical Engineering Thermodynamics I (3)

CBE 20258. Numerical and Statistical Analysis (3)

CBE 20290. Career Choices for Engineers (1)

Arts and Letters course (3)

### **Junior Year**

*First Semester (16 credits total)*

MATH 30650. Differential Equations (3)

CHEM 30333. Analytical Chemistry (3)

CHEM 31333. Analytical Chemistry Lab (1)

CBE 30361. Science of Engineering Materials (3)  
CBE 30355. Transport Phenomena I (3)  
    or CBE 30397. Biotransport (3)  
CBE 30367. Chemical Engineering Thermodynamics II (3)

*Second Semester (15 credits total)*

CHEM 30324. Physical Chemistry (3)  
CBE 30356. Transport Phenomena II (3)  
CBE 31358. Chemical Engineering Laboratory I (3)  
CBE 30338. Chemical Process Control (3)  
Arts and Letters course (3)

**Senior Year**

*First Semester (15 credits total)*

CBE 41459. Chemical Engineering Laboratory II (3)  
    or CBE 41910. Biomolecular Engineering Lab (3)  
CBE 40443. Separation Processes (3)  
CBE 40445. Chemical Reaction Engineering (3)  
Chemical Engineering Elective (3)  
Arts and Letters course (3)

*Second Semester (15 credits total)*

CBE 40448. Chemical Process Design (3)  
Chemical Engineering Elective (3)  
Technical Elective (3)  
Technical Elective (3)  
Arts and Letters course (3)

## **Civil Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 total credits)*

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

CE 20150. Statics (3)

CE 20111. Planet Earth (3)

CE 30160. CE Materials (4)

CE 23601. Chlg. & Innov. of CE Eng. (0)

*Second Semester (16.5 total credits)*

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

ACMS 30440. Probability and Statistics (3)

AME 20241. Solid Mechanics (4)

CE 20600. Intro to CAD (2)

CE 20230. Engineering Programming (1)

CE 23601. Chlg. & Innov. of CE Eng. (0)

Arts and Letters course (3)

### **Junior Year**

*First Semester (15 total credits)*

MATH 30650. Differential Equations (3)

CE 30125. Computational Methods (3)

CE 30200. Intro to Struct. Engrg (3)  
CE 30300. Intro to Env. Engrg (3)  
CE 33601. Chlg. & Innov. of CE Eng. (0)  
CE 30460. Fluid Mechanics (3)

*Second Semester (17 total credits)*

CE 40270. Reinf. Concrete Design (4)  
CE 30510. Intro to Geotech Engrg (4)  
CE 40450. Hydraulics (3)  
CE 30150. Dynamics & Modeling (3)  
CE 33601. Chlg. & Innov. of CE Eng. (0)  
Arts and Letters course (3)

**Senior Year**

*First Semester (17 total credits)*

CE 40620. Transportation (3)  
    or CE 40465. Environmental Fluid Mechanics (3)  
Core Concentration Elective (4)  
CE Elective (3)  
CE 40701. Principles of Practice (1)  
CE 43601. Chlg. & Innov. of CE Eng. (0)  
Arts and Letters course (3)  
Arts and Letters course (3)

*Second Semester (15 total credits)*

CE 40702. Senior Design (3)  
Core Concentration Elective (3)  
Technical Elective (3)  
CE Elective (3)  
CE 43601. Chlg. & Innov. of CE Eng. (0)  
Arts and Letters course (3)

## **Environmental Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (18.5 credits total)*

CE 20110. Planet Earth w/lab (4)

PHYS 10320. Physics II (4)

CE 30300. Intro to Env. Eng. (3)

CE 31300. Intro to Env. Eng. Lab (1)

MATH 20550: Calculus III (3.5)

CE 20150. Statics (3)

CE 23601. Chlg. & Innov. of CE Eng. (0)

*Second Semester (16.5 credits total)*

CE 20300. Global Change, Water & Energy (3)

CE 20320. Env. Aquatic Chem (3)

MATH 20580. Linear Alg. Diff. Equations (3.5)

ACMS 30440. Prob. & Stats. (3)

Arts and Letters course (3)

CE 20230: Engineering Programming (1)

CE 23601. Chlg. & Innov. of CE Eng. (0)

### **Junior Year**

*First Semester (16 credits total)*

CE 30455. Env. Hydrology (3)

CE 30125. Comp. Methods (3)  
CE 20520. Env. Mineralogy (4)  
CE 30460. Fluid Mechanics (3)  
Arts and Letters course (3)  
CE 33601. Chlg. & Innov. of CE Eng. (0)

*Second Semester (15 credits total)*

CE 30320. Water Chemistry & Treatment (3)  
CE 40450. Hydraulics (3)  
CE 40350. Env. Microbiology (3)  
Technical Elective (3)  
Arts and Letters course (3)  
CE 33601. Chlg. & Innov. of CE Eng. (0)

**Senior Year**

*First Semester (17 credits total)*

CE 40341. Biological Process Design (3)  
CE 40300. Geochemistry (3)  
CE 40460. Groundwater Hydrology (4)  
CE 40355. Water, Disease & Global Health (3)  
    or CE 40465. Env. Fluid Mechanics (3)  
CE 40701. Principles of Practice (1)  
Arts and Letters course (3)  
CE 43601. Chlg. & Innov. of CE Eng. (0)

*Second Semester (15 credits total)*

CE 40420. Reactive Transport (3)  
CE 40702. Senior Design (3)  
CE Elective (3)  
Technical Elective (3)  
Arts and Letters course (3)  
CE 43601. Chlg. & Innov. of CE Eng. (0)

## **Computer Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 credits total)*

CSE 20211. Fundamentals of Computing I (4)

CSE 20110. Discrete Mathematics (3)

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

Arts and Letters course (3)

*Second Semester (17.5 credits total)*

CSE 20189. Basic Unix (3)

CSE 20212. Fundamentals of Computing II (4)

CSE 20221. Logic Design (4)

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

Arts and Letters course (3)

### **Junior Year**

*First Semester (17 credits total)*

CSE 30331. Data Structures (3)

CSE 30321. Computer Architecture I (4)

EE 20224. Introduction to Electrical Engineering (4)

Free Elective (3)

Arts and Letters course (3)



*Second Semester (16 credits total)*

EE 20242. Electronics (4)

CSE 30341. Operating System Principles (3)

EE 20234. Electric Circuits (3)

ACMS 30440. Probability and Statistics (3)

Arts and Letters course (3)

**Senior Year**

*First Semester (15 credits total)*

EE 30344. Signals and Systems (3)

CSE Electives (9)

Free Elective (3)

*Second Semester (13 credits total)*

CSE 40522. CPEG Capstone (4)

CSE 40175. Ethics and Professional Issues (3)

CSE Elective (3)

Arts and Letters course (3)

## **Computer Science**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 total credits)*

CSE 20211. Fundamentals of Computing I (4)

CSE 20110. Discrete Mathematics (3)

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

Arts and Letters course (3)

*Second Semester (17.5 total credits)*

CSE 20212. Fundamentals of Computing II (4)

CSE 20221. Logic Design (4)

MATH 20580. Introduction to Linear Algebra and Differential Equations (3.5)

CSE 20189. Basic Unix (3)

Arts and Letters course (3)

### **Junior Year**

*First Semester (16 total credits)*

CSE 30331. Data Structures (3)

CSE 30321. Computer Architecture I (4)

CSE Elective (3)

Technical Elective (3)

Arts and Letters course (3)

*Second Semester (15 total credits)*

- CSE 30151. Theory of Computing (3)
- CSE 30341. Operating System Principles (3)
- CSE 30332. Programming Paradigms (3)
- ACMS 30440. Probability and Statistics (3)
- Arts and Letters course (3)

**Senior Year**

*First Semester (15 total credits)*

- CSE 40113. Algorithms (3)
- CSE Electives (6)
- Technical Elective (3)
- Free Elective (3)

*Second Semester (12 total credits)*

- CSE 40175. Ethics and Professional Issues (3)
- CSE Electives (6)
- Arts and Letters course (3)

## **Electrical Engineering**

### **First-Year**

*First Semester (18 credits total)*

WR 13100. Writing and Rhetoric (3)

MATH 10550. Calculus I (4)

CHEM 10171. General Chemistry: Fundamental Principles (4)

EG 10111. Introduction to Engineering Systems I (3)

Arts and Letters course (3)

Moreau First Year Experience (1)

*Second Semester (18 credits total)*

University Seminar (3)

MATH 10560. Calculus II (4)

CHEM 10122. General Chemistry: Biological Processes or other technical course (3)

PHYS 10310. General Physics I (4)

EG 10112. Introduction to Engineering Systems II (3)

Moreau First Year Experience (1)

### **Sophomore Year**

*First Semester (17.5 credits total)*

MATH 20550. Calculus III (3.5)

PHYS 10320. General Physics II (4)

CSE 20232. C/C++ Programming (3)

EE 20224. Introduction to Electric Circuit Analysis (2)

EE 20225. Introduction to Electrical Engineering (2)

Arts and Letters course (3)

*Second Semester (18 credits total)*

MATH 20580: Introduction to Linear Algebra and Differential Equations (3.5)

PHYS 20330. General Physics III (3.5)

EE 20242. Electronics (4)

EE 20234. Electric Circuits (3)

CSE 20221. Logic Design (4)

### **Junior Year**

*First Semester (15 credits total)*

MATH 30650. Differential Equations (3)

EE 30344. Signals and Systems (3)

EE 30347. Fundamentals of Semiconductors (3)

EE 30348. Electromagnetic Fields (3)

Arts and Letters course (3)

*Second Semester (15 credits total)*

EE 30363. Random Phenomena in EE (3)

Electrical Engineering Electives (6)

Technical Elective (3)

Arts and Letters course (3)

**Senior Year**

*First Semester (15 credits total)*

EE 41430. Senior Design I (3)

Electrical Engineering Electives (6)

Engineering Science Elective (3)

Arts and Letters course (3)

*Second Semester (15 credits total)*

EE 41440. Senior Design II (3)

Electrical Engineering Electives (6)

Technical Elective (3)

Arts and Letters course (3)

## Bylaw Eight

### METHOD OF AMENDMENT

Section 1: These bylaws may be amended by a three-fourths vote of the active membership of the Chapter present, subject to the approval of the Advisory Board. Amendments to the bylaws may not be voted upon until all present members are aware of pertinent changes.

Section 2: All amendments to these Bylaws must be approved by the Student Activities Office at the University of Notre Dame.

Section 3: Any changes to the Bylaws of the Association must be forwarded to the Student Activities Office.

## Bylaw Nine

### RATIFICATION

Section 1: These bylaws having been ratified by a three-fourths vote of the active membership and a majority vote of the Advisory Board of the Chapter. They must also be formally approved by the Student Activities Office. After having been approved by the National Organization, they shall become the Bylaws of the Indiana Gamma Chapter of the Tau Beta Pi Association, effective 3/1/2016.

## Bylaw Ten

### AFFILIATION

Section 1: Tau Beta Pi is affiliated with the National Tau Beta Pi Association, a national organization whose purpose is to mark in a fitting manner those who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as undergraduates in the field of engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in the engineering colleges.

Section 2: When in conflict, University of Notre Dame policy shall supersede the policy of the National Tau Beta Pi Association.