NAME: Ian Wilhite **UIN:** 333008004

***A complete and thorough Degree Plan (DP) is due by the end of the 5th week of your first full term in ITDE. A Registration Hold will be put on your if degree plan is not submitted by this time.*

DEGREE PLAN INSTRUCTIONS

Below are the ITDE Degree Requirements for your degree plan. There are two main areas: Core UCC/ITDE requirements (70 credits) and Technical Electives (58 credits).

Use the degree requirements and rules to build your degree plan starting in Semester #1. Directions to build your plan are below in 1-7.

1. In Cell I31, please start with your First Semester at TAMU for Semester #1:

a. Enter Term and Year (i.e. Fall 2023) in the blue boxes below.

b. Enter the Courses; Credits per course; and Grades received in courses.

c. Enter any dual credit or AP credit (only those that apply toward your ITDE degree) in Semester #1.

2. Continue to enter the same information in the following semesters until you reach your Current Semester.

3. In your Current Semester:

a. Enter the current Term and Year.

a. Enter current Coures; Course Names; their Pre-/Co-Requisites; and their Credits.

b. Enter IP (for In Progress) for your current grades.

4. Using the ITDE Degree Requirements rules for the Core UCC/ITDE(Area #1) and Technical Electives(Area #2):

a. Using the TAMU catalog (catalog.tamu.edu) in the Course Descriptions area along with the disciplines identified in #2 on the PS tab, start identifying the courses you which to take to apply as Techncial Electives in Area #2.

b. Enter the Courses; Credits; and Pre-/Co-reqs in Area #2 - Technical Electives. A good starting point is looking at the 400-level courses and then work backworks for what is required for pre-/co-reqs.

c. Be mindful of the rules in Areas #2 and #5 for the Techncial Electives!

d. Once you have at least 58 credits of technical electives, start building your degree plan at the right. **BE WARY OF PRE-/CO-REQS!**

e. Do not include those courses not applying toward ITDE degree.

5. In Area #4:

a. Indicate any minors or certificates and their coursework you are pursuing and these courses are in your degree plan.

b. These courses can also count towards your techncial electives in Area#2.

c. BE WARY OF PRE-/CO-REQS!

6. Make sure you triple-check the right-side of this sheet (semester-by-semester schedule) and the left-side (DP rules) agree and there are no pre-/co-req violations.

7. A letter grade of at least a C is required for all courses in the degree plan!!!

ITDE DEGREE REQUIREMENTS

1. Core UCC/ITDE - 70 total credits

Courses	Credits	Pre-requisites/Notes	DP Semester	Suggested Semester
Following 27 credits constitute the Common First Year Engineering curriculum				

CHEM 107 or CHEM 120 (4 credits)	3		S2	S1
CHEM 117	1	CHEM 107 or concurrent	S2	S1
ENGL 103 or ENGL 104	3		AP	AP
ENGR 102	2	Math 150/151 or concurrent	S1	S1
ENGR/PHYS 216	2	C or better in ENGR 102; C or better in Math 151; C or better in PHYS 206 or concurrent enrollment	S2	S2
ENGR/PHYS 217	2	C or better in ENGR/PHYS 216; C or better in MATH 152; C or better in PHYS 207 or concurrent enrollment	S5	S3
MATH 151	4	Math 150	AP	AP
MATH 152	4	Math 151 or equivalent	AP	AP
PHYS 206	3	C or better in MATH 151	AP	AP
PHYS 207	3	C or better in PHYS 206; C or better in Math 152	AP	AP
Communication Elective: COMM 203, COMM 205, COMM 243, ENGL 203, or ENGL 210	3	ENGL 203	AP	AP
ITDE 401 *(W course)*	3	Senior classification and approval of instructor	S5	Fall term of final year
ITDE 402	2	ITDE 401	S6	Spring term of final year
ITDE 201 *(C course)*	1		S3	1st fall term in ITDE
ITDE 301	1		S5	2nd fall term in ITDE
ITDE 399 - High Impact Experience	0		S5	Any term starting in 2nd year
ITDE 499 - Degree Plan Approval	0		S6	In your final term
MATH 251 or 253	3	Math 251	S1	S1
MATH 308	3	Math 308	S2	S2
MATH 304, MATH 323, MATH 311 or MATH 4(	3	Math 304	S1	S1
Math/Science Elective	3	*Math 407*	S6	Any term
Creative Arts UCC*	3	*perf 301/phil 482*	S5	Any term
American History UCC*	3	*hist 105*	AP	AP
American History UCC*	3	*hist 106*	AP	AP
POLS 206	3		AP	AP
POLS 207	3		S1	S1
Language, Philosophy, Culture UCC*	3	*hist 104*	AP	AP
Social and Behavioral Science UCC*	3	*pbsi 107*	AP	AP
Total Credits	**70**		**ABET Math/Sciences:**	**32**

See core.tamu.edu for options. At least 1 course needs to be ICD and at least one course needs to be CD.

***Please HIGHLIGHT IN RED ICD and CD courses on your Degree Plan (DP).*

2. Technical Electives - 58 total credits

a. No more than 30 credit hours from a single engineering department (please use RED font)

b. At least 24 credits of the technical electives must be composed of 300- and 400-level courses taken at TAMU.

HIGHLIGHT THESE COURSE NAMES/# IN YELLOW.

c. At least 34 credits of **engineering topics** in technical electives (see Area #5 below).

HIGHLIGHT THESE CREDITS IN ORANGE.

Courses	Credits	Pre-requisites/Notes	DP Semester
Meen 408	3	meen 364	S6
Meen 431	3	meen 364	S6
Meen 364	3	260, 363, ecen 215	S5
Meen 363	3	meen 357, meen 305*	S4
Meen 260	3	meen 315	S4
Meen 305	3	meen 225 & *meen 210*	S3
meen 357	3		S3
meen 221	3		S2
meen 210	2		S3
Meen 315	3		S4
Ecen 215	3		S3
stat 211	3		S2
econ 202	3		AP
csce 110	4		AP
csce 221	4	120, co 222	S4
ecen 222	3		S4
csce 411	3	221, 222	S6
csce 120	3		S3
ecen 248	4		S5
engr 462	1		S2
Total Credits	**60**	*Must add up to at least 58 cre*	

3. Degree plan must total at least 128 credits

	Credits	
Total # of credits in DP	**130**	(Sum of areas #1 and #2)

4. Minors and/or Certificates

List minor/certificate name and courses.

Course	Course Name	Credits
Control of Mechanical Systems		
Meen 363		3
Meen 364		3
Meen 408		3
Meen 431		3
Meen 433		3
	Total Credits	15

Course	Course Name	Credits
Math		
Math 152	Calc 2	4
Math 251	Calc 3	3
Math 308	Differential Equations	3
Math 304	Linear Algebra	3
Math 407	Complex Variables	3
	Total Credits	16

5. ABET Criteria

a. A total of at least 45 credits of engineering topics must be included. The UCC/ITDE Core includes 11 credits (marked with orange boxes below). Technical electives must include another 34 credits from Area#2 above.

b. Add engineering topics courses highlighted in ORANGE from your technical electives in Area #2 to the table below.

Note: **The following courses MAY NOT be included in the engineering topics category (they may be included in the DP elsewhere):**

Any course offered under CLEN, IDIS, ITSV, ESET, MARE, MARR, MART, MMET, or MXET prefixes

Any of ENGR 101, 251, 260, 262, 270, 281

Any of ENGR/MTDE 301, 311, 312, 313, 350, 351, 360, 421, 450, 451, 461, 462, 470

Any of ENGR/MTDE Engineering Entrepreneurship courses

Courses	Credits	DP Semester
Core UCC/ITDE		
ENGR 102	2	S1
ENGR/PHYS 216*	1	S2
ENGR/PHYS 217*	1	S3
ITDE 401 *(W course)*	3	S8
ITDE 402	2	S9
ITDE 201 *(C course)*	1	S3
ITDE 301	1	S5
ITDE 399 - High Impact Experience	0	S7
ITDE 499 Degree Plan Approval	0	S9
Technical Electives		
Meen 408	3	S6
Meen 431	3	S6
Meen 365	3	S5
Meen 364	3	S5

* ENGR/PHYS 216 and 217 each include 1 credit of engineering topics (the 1 credit of math/science in each course is not included here).

Meen 363	3	S4
Meen 260	3	S4
Meen 315	3	S4
Ecen 215	3	S3
Meen 305	3	S3
meen 357	3	S4
Csce 452	3	S6
Csce 431	3	S6
Csce 331	3	S5
csce 313	3	S5
csce 350	3	S4
csce 221	3	S4
	59	

Semester #1: First term at TAMU (*Include HS dual/AP credit that meet ITDE requirements*)

Term Year ***Fall 2023*** ***please include summer tems in plan*

Course	**Course Name**	**Pre-requisites**	**Credits**	**Grade**

Chem 119	Gen Chem 1		4	A
ENGR 102	engineering computation		2	A
POLS 207	State and local gov		3	B
MATH 251	Multi		3	B
Math 304	Linear		3	B
Math 151		AP	4	
Math 152		AP	4	
Phys 206		AP	3	
Phys 207		AP	3	
engl 104		AP	3	
engl 203		AP	3	
hist 104 - 106		AP	9	
pbsi 107		AP	3	
pols 206		AP	3	
csce 110		AP	4	
econ 202		AP	3	
			57	

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Semester #2

Term Year	**Spring 2024**			
Course	**Course Name**	**Pre-requisites**	**Credits**	**Grade**
Meen 221	statics		3	B
Math 308	Diff eq		3	B
Phys 216			2	A
Chem 120			4	C
Stat 211	stats 1		3	C
engr 462			1	A

	16

Semester #3

Term Year	Fall 2024		15		
Course	**Course Name**	**Pre-requisites**	**Credits**	**Grade**	
csce 120	**Program Design and Concepts**		**3**	**4**	12
Meen 357	Engienering Analysis		3	**4**	12
ecen 215	Principles of Electrical Engineering		3	**4**	12
itde 201	Foundations of Interdiciplinary Engineering		1	**4**	4
meen 305	Solid Mechanics		3	**2**	6
Meen 210	Geometric Modeling for Mechanical Design		2	**4**	8
					3.6

Semester #4

Term Year	Spring 2025		18	
Course	**Course Name**	**Pre-requisites**	**Credits**	**Grade**
meen 363	Dynamics and Vibrations		3	
meen 260	Mechanical Measurements		3	
AGCJ 404	Science Influnecers Program		3	
Math 407	Complex analysis		3	
Meen 315	Thermo		3	
AERO 489	autonomous aerospace systems		3	

Semester #5

Term Year	Summer 2025		6	
Course	**Course Name**	**Pre-requisites**	**Credits**	**Grade**
Creative Arts UCC*	Performance in World Cultures		3	
CSCE 222	Discrete Structures for Computing		3	

Semester #5

Term Year	Fall 2025		16	
Course	**Course Name**	**Pre-requisites**	**Credits**	
csce 221	Data Structures and Algorithms		4	
ecen 314	signals and systems		3	
ITDE 301	experimentation in itde		1	
ITDE 399 - High Imp	High Impact Experience		0	
ITDE 401 (W course	ITDE Capstone 1		3	
Meen 364	Dynamic Systems and Controls		3	**Grade**
phys 217	Experimental Physics and Engineering lab III - Electricity and Mag		2	

Semester #6

Term Year	Fall 2025		14	
Course	**Course Name**	**Pre-requisites**	**Credits**	
CSCE 411	Design of analytical algorithms		3	
itde 402	ITDE Capstone 2		2	
meen 408	Mechanics of Robotic Manipulators		3	
meen 431	Advanced System Dynamics and Controls		3	
ecen 420			3	
ITDE 499	degree plan approval		0	**Grade**