

## Course Guideline

### AUTOMOTIVE DESIGN AND MANUFACTURING ENGINEERING (ADME) Program

(Apply for student ID 66 - 69)

#### FIRST SEMESTER

##### Year 1/1

<input type="checkbox"/> 2190101	COMP PROG (co-4a)	3 CREDITS
<input type="checkbox"/> 2190151	COMP PROG LAB (4a)	1 CREDIT
<input type="checkbox"/> 2301107	CALCULAS I (1a)	3 CREDITS
<input type="checkbox"/> 2189101	ENG MAT	3 CREDITS
<input type="checkbox"/> 2183103	FUND ENG GRAPHICS	3 CREDITS
<input type="checkbox"/> 2304153	PHYS ENGS	3 CREDITS
<input type="checkbox"/> 2304193	PHYS LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501112	COM ENG I	3 CREDITS

**Total 20 CREDITS**

##### Year 2/1

<input type="checkbox"/> 2142413*	MFG AUTO ENG	2 CREDITS
<input type="checkbox"/> 2183212	STATICS (2a)	3 CREDITS
<input type="checkbox"/> 2183221	THERMODYNAMICS	3 CREDITS
<input type="checkbox"/> 2183282*	INTRO AUTO ENG	3 CREDITS
<input type="checkbox"/> 2184201	PROB STAT AUTO ENG	3 CREDITS
<input type="checkbox"/> 2301312	DIFF EQUATIONS (1c)	3 CREDITS

**Total 17 CREDITS**

##### Year 3/1

<input type="checkbox"/> 2183325*	SYS MODEL VIBRA	2 CREDITS
<input type="checkbox"/> 2182215*	FUND ELEC MACHINES	2 CREDITS
<input type="checkbox"/> 2182216*	ELEC ENG LAB	1 CREDIT
<input type="checkbox"/> 2183323	FUND FLUID MECH HEAT	3 CREDITS
<input type="checkbox"/> 2183261	MECH ENG LAB	2 CREDITS
<input type="checkbox"/> 2183332	CAD/CAM/CAE	3 CREDITS
<input type="checkbox"/> 5501225	TECH WRITING (PRE 5501123)	3 CREDITS

**Total 16 CREDITS**

##### Year 3/3 (SUMMER)

<input type="checkbox"/> 2140301	INDUS TRAINING	2 CREDITS
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##### Year 4/1

<input type="checkbox"/> 2183427*	MOD VEH SYS DESIGN	3 CREDITS
<input type="checkbox"/> 2182431*	SYS DYNAM CTRL	2 CREDITS
<input type="checkbox"/> XXXXXX	COM ELEC I	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS

**Total 17 CREDITS**

##### **Note**

- **Xa** is a prerequisite subject for Xb and Xb is also a prerequisite subject for Xc. (Example: Have to pass 2a before register 2b)

- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw Xa subject, you have to take/drop/withdraw co-Xa

#### SECOND SEMESTER

##### Year 1/2

<input type="checkbox"/> 2140111	EXPL ENG WORLD	3 CREDITS
<input type="checkbox"/> 2302105	CHEM ENG	3 CREDITS
<input type="checkbox"/> 2302103	GEN CHEM LAB	3 CREDITS
<input type="checkbox"/> 2301108	CALCULAS II (1b)	3 CREDITS
<input type="checkbox"/> 2304154	PHYS ELEC ENGS	3 CREDITS
<input type="checkbox"/> 2304194	PHYS ELEC LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501123	COM ENG II (PRE 5501112)	3 CREDITS

**Total 18 CREDITS**

##### Year 2/2

<input type="checkbox"/> 2147104*	ENG DSGN THINKING	3 CREDITS
<input type="checkbox"/> 2182214*	FUND ELEC CIRCUITS	2 CREDITS
<input type="checkbox"/> 2183213	MECH MAT (2b)	3 CREDITS
<input type="checkbox"/> 2183231	DYNAMICS (3a)	3 CREDITS
<input type="checkbox"/> 2301216*	LIN ALG	3 CREDITS
<input type="checkbox"/> 5501214	COM PRES SKILLS (PRE 5501123)	3 CREDITS

**Total 17 CREDITS**

##### Year 3/2

<input type="checkbox"/> 2142424	VEH DYNAMICS (3b)	3 CREDITS
<input type="checkbox"/> 2183351	MECH ENG DSGN	3 CREDITS
<input type="checkbox"/> 2184344*	XEV PROP SYS	3 CREDITS
<input type="checkbox"/> 2142344	MANAGE AUTO IND	3 CREDITS
<input type="checkbox"/> 2301215*	MULTIVAR CALCULUS (1c)	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS

**Total 18 CREDITS**

##### Year 4/2

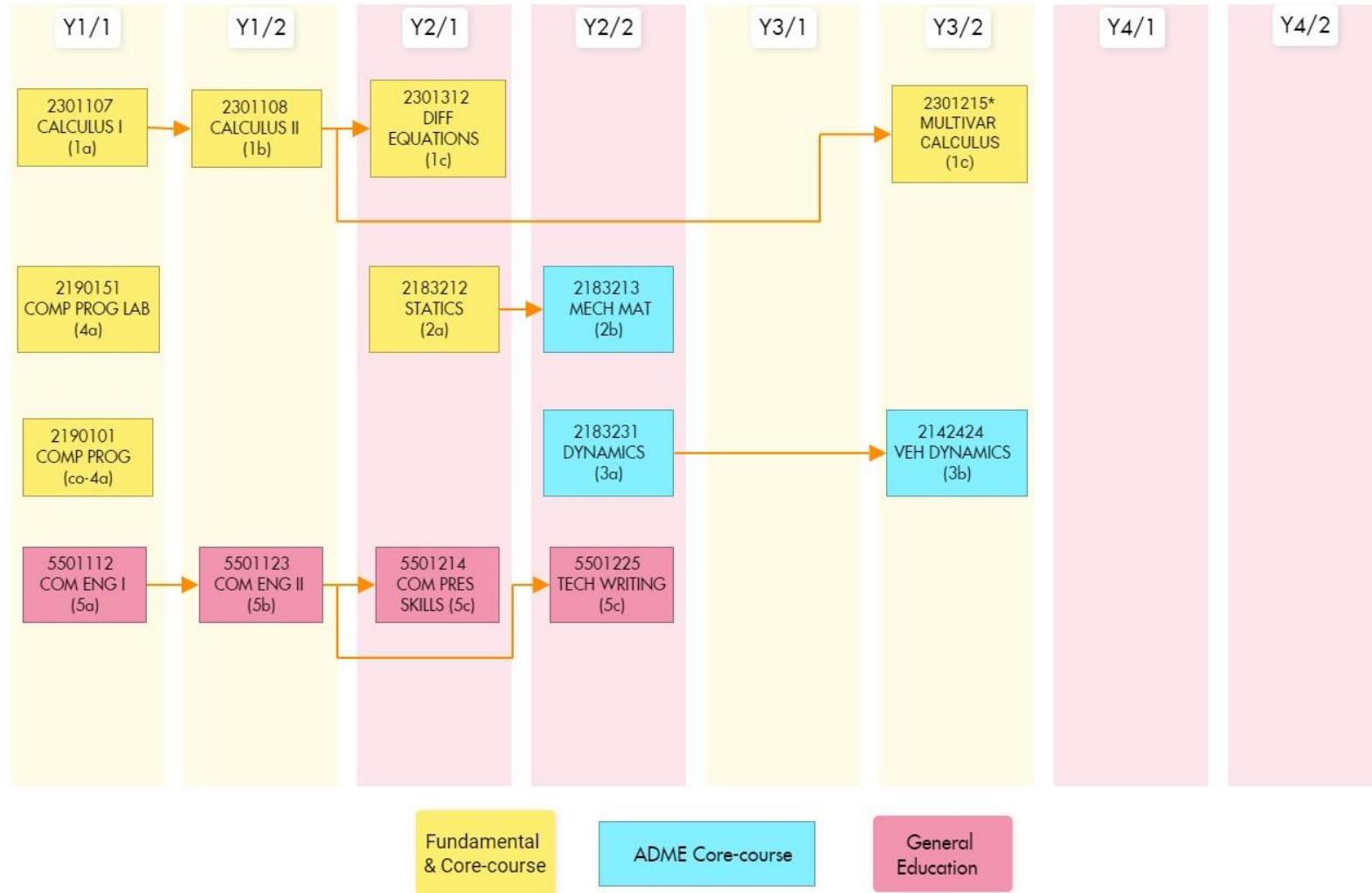
<input type="checkbox"/> 2142499	AUTO ENG PROJECT	3 CREDITS
<input type="checkbox"/> 2182570*	DIGI SYS IOT AUTO TECH	3 CREDITS
<input type="checkbox"/> 2100201*	INTRO TO ART INTEL	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS

**Total 15 CREDITS**

**TOTAL CREDITS FOR GRADUATION**

**138**

## ADME Program (Apply for student ID 66-69)



## Course Guideline

### Information and Communication Engineering (ICE) Program

(Apply for student ID 66 - 69)

#### FIRST SEMESTER

##### Year 1/1

<input type="checkbox"/> 2140111	EXPL ENG WORLD	3 CREDITS
<input type="checkbox"/> 2190101	COMP PROG (1a)	3 CREDITS
<input type="checkbox"/> 2301107	CALCULUS I (3a)	3 CREDITS
<input type="checkbox"/> 2304153	PHYSICS ENGS	3 CREDITS
<input type="checkbox"/> 2304193	PHYSICS LAB ENGS	1 CREDITS
<input type="checkbox"/> 5501112	COM ENG I	3 CREDITS
<input type="checkbox"/> XXXXXX	GEN EDUCATION	3 CREDITS
<b>Total</b>		<b>19 CREDITS</b>

##### Year 2/1

<input type="checkbox"/> 2182202	ADV MATH METH (3c)	3 CREDITS
<input type="checkbox"/> 2182214*	ELEC CIR ICE (4a)	3 CREDITS
<input type="checkbox"/> 2182212	CIR DIG ELEC LAB (co-4a)	1 CREDITS
<input type="checkbox"/> 2190200	DISCRETE STRUC	3 CREDITS
<input type="checkbox"/> 2190222*	FUND DS ALG (1b)	4 CREDITS
<input type="checkbox"/> 2190513*	DATA SCI (1b)/(2b)	3 CREDITS
<b>Total</b>		<b>17 CREDITS</b>

##### Year 3/1

<input type="checkbox"/> 2190250	COMP ARCH ORG	3 CREDITS
<input type="checkbox"/> 2190443	USER INT DSGN	3 CREDITS
<input type="checkbox"/> 2182372**	PRIN TELECOMM	3 CREDITS
<input type="checkbox"/> 2184301	ENG ECON APP	3 CREDITS
<input type="checkbox"/> 2190472	NETCENT ARCH (1b)	3 CREDITS
<input type="checkbox"/> XXXXXX	ELECTIVE	3 CREDITS
<b>Total</b>		<b>18 CREDITS</b>

##### Year 3/3 (SUMMER)

<input type="checkbox"/> 2140301	INDUS TRAINING	2 CREDITS
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##### Year 4/1

<input type="checkbox"/> 2143491	ICE PREPROJ (5a)	1 CREDITS
<input type="checkbox"/> XXXXXX	ELECTIVE	6 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS
<b>Total</b>		<b>10 CREDITS</b>

#### SECOND SEMESTER

##### Year 1/2

<input type="checkbox"/> 2143101	INTRO ICE	3 CREDITS
<input type="checkbox"/> 2182205*	PROB STAT DATA (2a)	3 CREDITS
<input type="checkbox"/> 2190103*	ADV COMP PROG (1b)	3 CREDITS
<input type="checkbox"/> 2301108	CALCULUS II (3b)	3 CREDITS
<input type="checkbox"/> 2304154	PHYS ELEC ENGS	3 CREDITS
<input type="checkbox"/> 2304194	PHYS ELEC LAB ENGS	1 CREDITS
<input type="checkbox"/> 5501123	COM ENG II (Pre 5501112)	3 CREDITS
<b>Total</b>		<b>19 CREDITS</b>

##### Year 2/2

<input type="checkbox"/> 2182204	SIG LIN SYS	3 CREDITS
<input type="checkbox"/> 2190512*	APP DEV	3 CREDITS
<input type="checkbox"/> 2190514*	AI	3 CREDITS
<input type="checkbox"/> 5501214	COM PRE SKILL (Pre 5501123)	3 CREDITS
<input type="checkbox"/> XXXXXX	GEN EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS
<b>Total</b>		<b>18 CREDITS</b>

##### Year 3/2

<input type="checkbox"/> 2143399	ICE CAPSTONE	3 CREDITS
<input type="checkbox"/> 2182371	PRIN DATA COMM	3 CREDITS
<input type="checkbox"/> 2190426*	DATABASE SYS	3 CREDITS
<input type="checkbox"/> 2190423	SOFTWARE ENG	3 CREDITS
<input type="checkbox"/> 2190413	SYS SECURITY	3 CREDITS
<input type="checkbox"/> 5501225	TECH WRIT (Pre 5501123)	3 CREDITS
<b>Total</b>		<b>15 CREDITS</b>

##### Year 4/2

<input type="checkbox"/> 2143499	ICE PROJECT (5b)	3 CREDITS
<input type="checkbox"/> 2190516*	TECH MGT	3 CREDITS
<input type="checkbox"/> XXXXXX	GEN EDUCATION	6 CREDITS
<b>Total</b>		<b>12 CREDITS</b>

**TOTAL CREDITS FOR GRADUATION 133**

#### Note

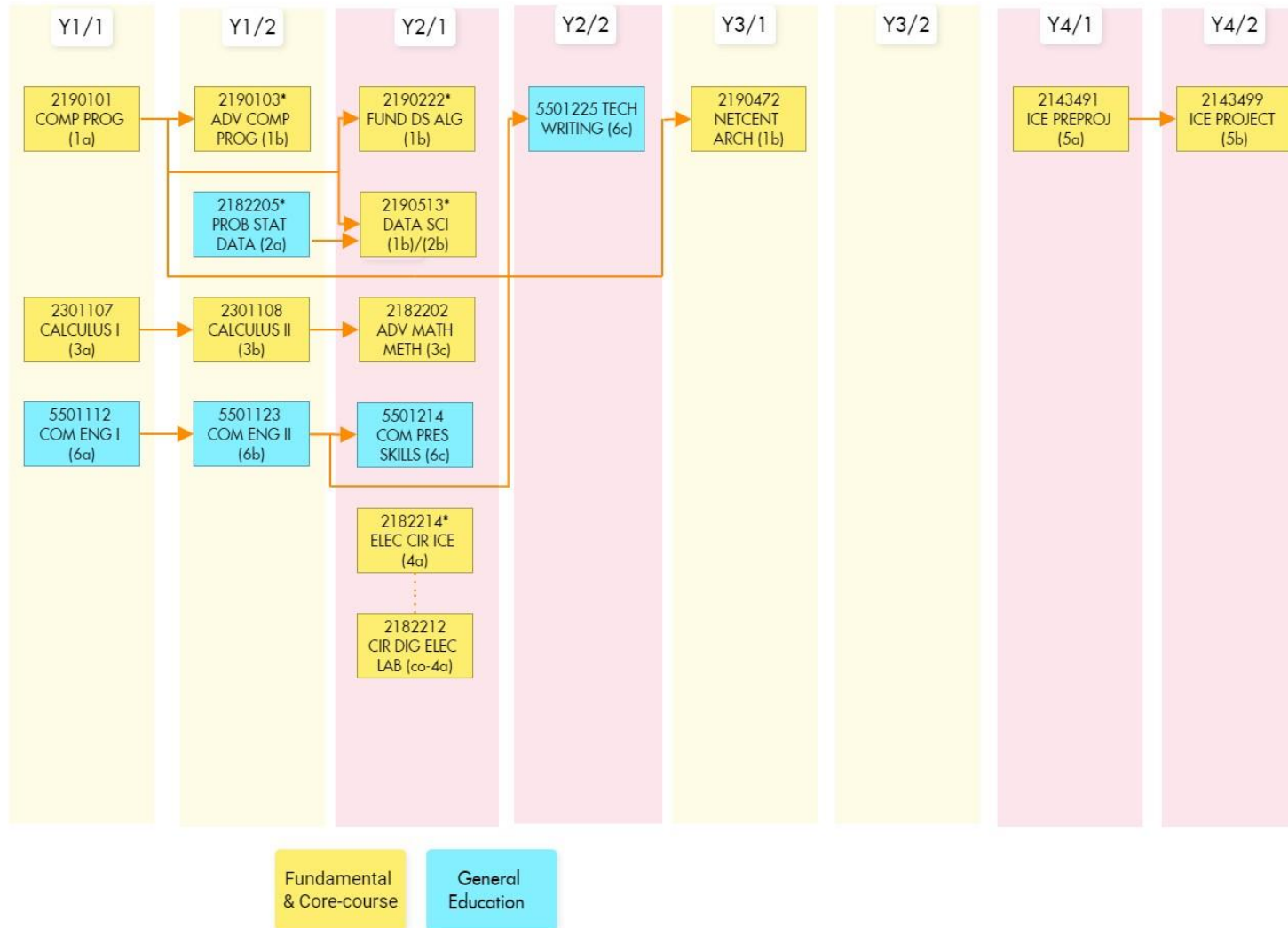
- **Xa** is a prerequisite subject for Xb and Xb is also a prerequisite subject for Xc. (Example: Have to pass 2a before register 2b)

- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw

Xa subject, you have to take/drop/withdraw co-Xa

## ICE Program (Apply for student ID 66 – 69)

—————> Pre-requisite  
 - - - - - Co-requisite



## Course Guideline

### Aerospace Engineering (AERO) Program

(Apply for student ID 66 – 69)

#### FIRST SEMESTER

##### Year 1/1

<input type="checkbox"/> 2183102* COM AID DES ENG	3 CREDITS
<input type="checkbox"/> 2145211**INTRO AERO ENG	3 CREDITS
<input type="checkbox"/> 2301107 CALCULUS I (1a)	3 CREDITS
<input type="checkbox"/> 2304153 PHYSICS ENGS.	3 CREDITS
<input type="checkbox"/> 2304193 PHYSICS LAB ENGS	1 CREDITS
<input type="checkbox"/> 5501112 COM ENG I	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

##### Year 2/1

<input type="checkbox"/> 2145218* SCI PROG	2 CREDITS
<input type="checkbox"/> 2183211 ENG MECH	4 CREDITS
<input type="checkbox"/> 2183221 THERMODYNAMICS (2a)	3 CREDITS
<input type="checkbox"/> 2301215 MULTIVAR CALCULUS (1c)	3 CREDITS
<input type="checkbox"/> 2301216 LIN ALG DIFF EQ (1c)	3 CREDITS
<input type="checkbox"/> 5501214 COM PRES SKILLS (Pre 5501123)	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

##### Year 3/1

<input type="checkbox"/> 2145311 AERODYNAMICS I (3b)	3 CREDITS
<input type="checkbox"/> 2145326 AIR STRUC	3 CREDITS
<input type="checkbox"/> 2145427* ELEC FOR AERO ENG	2 CREDITS
<input type="checkbox"/> 2145327 AIR PERFORM	3 CREDITS
<input type="checkbox"/> 2145453 MAT AERO ENG	3 CREDITS
<input type="checkbox"/> XXXXXX GEN EDUCATION	3 CREDITS
<b>Total</b>	<b>17 CREDITS</b>

##### Year 3/3 (SUMMER)

<input type="checkbox"/> 2140301 INDUS TRAINING	2 CREDITS
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##### Year 4/1

<input type="checkbox"/> 2145475* AERO ENG PROJ I (5a)	2 CREDITS
<input type="checkbox"/> 2145461 AIR DSGN	3 CREDITS
<input type="checkbox"/> XXXXXX APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> XXXXXX APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> XXXXXX GEN EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX AI & BIG DATA	3 CREDITS
<b>Total</b>	<b>17 CREDITS</b>

#### SECOND SEMESTER

##### Year 1/2

<input type="checkbox"/> 2145221 INTRO AIR DSGN	1 CREDITS
<input type="checkbox"/> 2140111**EXPL ENG WORLD	3 CREDITS
<input type="checkbox"/> 2301108 CALCULUS II (1b)	3 CREDITS
<input type="checkbox"/> 2302103 GEN CHEM LAB	1 CREDITS
<input type="checkbox"/> 2302105 CHEM ENGS	3 CREDITS
<input type="checkbox"/> 2304154 PHYS ELEC ENGS	3 CREDITS
<input type="checkbox"/> 2304194 PHYS ELEC LAB ENGS	1 CREDITS
<input type="checkbox"/> 5501123 COM ENG II (Pre 5501112)	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

##### Year 2/2

<input type="checkbox"/> 2182203 PROB STAT ENG (1c)	3 CREDITS
<input type="checkbox"/> 2183222 FLUID MECH (3a)	3 CREDITS
<input type="checkbox"/> 2183231 DYNAMICS	3 CREDITS
<input type="checkbox"/> 2183381**NUM METH ENG	3 CREDITS
<input type="checkbox"/> XXXXXX INTERDISCIPLINARY & 21ST CENTURY SKILLS	3 CREDITS
<input type="checkbox"/> 5501225 TECH WRITING (Pre 5501123)	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

##### Year 3/2

<input type="checkbox"/> 2145312 AERODYNAMICS II (2b)/(3c)/(4a)	3 CREDITS
<input type="checkbox"/> 2145328 AIR STAB CONT	3 CREDITS
<input type="checkbox"/> 2145365* EXP AERO ENG	2 CREDITS
<input type="checkbox"/> 2145329 AIR PROPULSION (2b)/(3b)/(co-4a)	3 CREDITS
<input type="checkbox"/> XXXXXX FREE ELECTIVE	3 CREDITS
<input type="checkbox"/> XXXXXX GEN EDUCATION	3 CREDITS
<b>Total</b>	<b>17 CREDITS</b>

##### Year 4/2

<input type="checkbox"/> 2145473 ROCKET PROPULSION (2b)/(3b)/(co-4a)	2 CREDITS
<input type="checkbox"/> 2145476* AERO ENG PROJ II (5b)	3 CREDITS
<input type="checkbox"/> 2145493 SP ENV	2 CREDITS
<input type="checkbox"/> XXXXXX FREE ELECTIVE	3 CREDITS
<input type="checkbox"/> XXXXXX GEN EDUCATION	3 CREDITS
<b>Total</b>	<b>13 CREDITS</b>

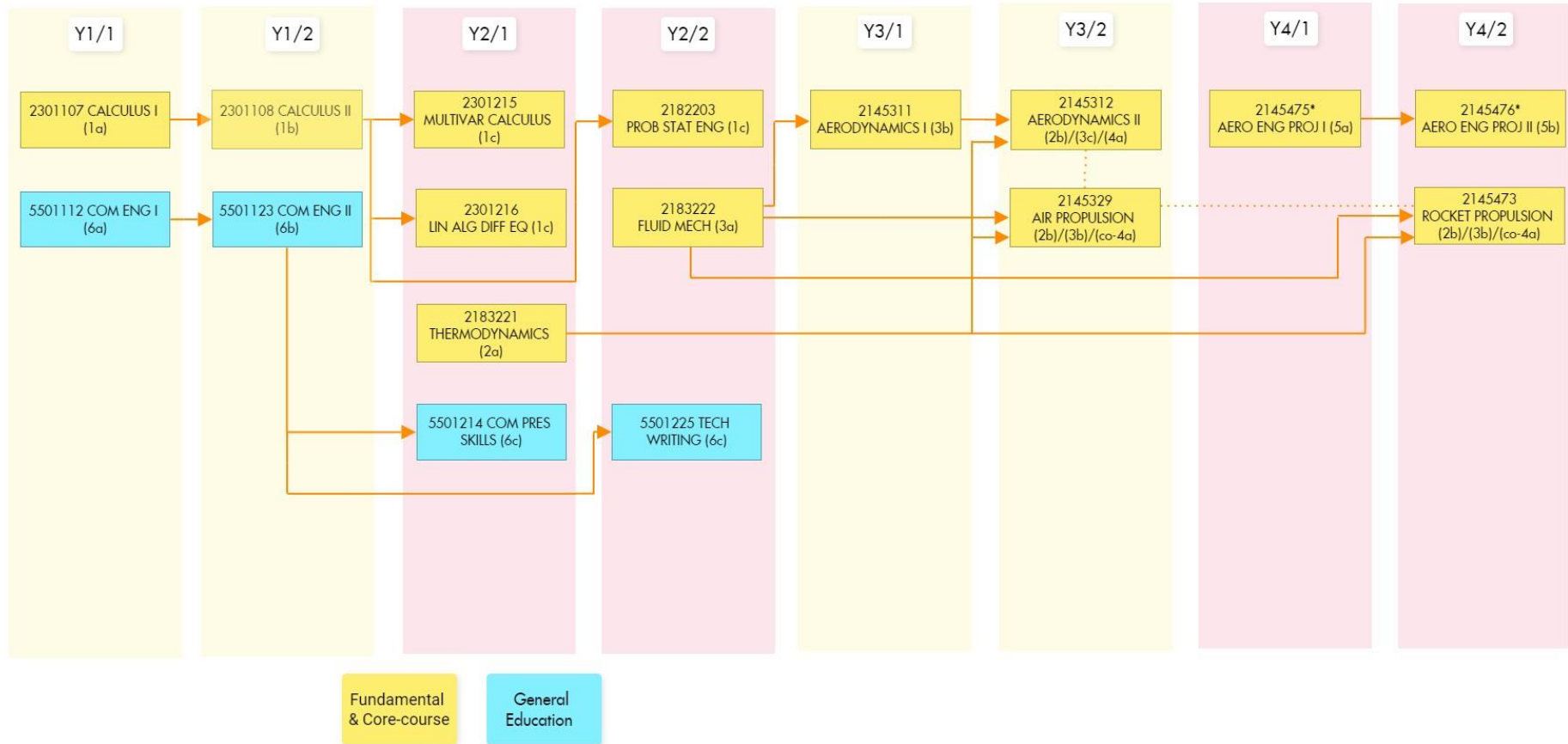
**TOTAL CREDITS FOR GRADUATION 136**

#### Note

- **Xa** is a prerequisite subject for Xb and Xb is also a prerequisite subject for Xc. (Example: Have to pass 2a before register 2b)
- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw Xa subject, you have to take/drop/withdraw co-Xa

## AERO Program (Apply for student ID 66 – 69)

→ Pre-requisite  
 Co-requisite



**Course Guideline**  
**Robotics and Artificial Intelligence Program**  
**(Apply for student ID 66 – 69)**

**FIRST SEMESTER**

**Year 1/1**

<input type="checkbox"/> 2147103	DISCRETE MATH	3 CREDITS
<input type="checkbox"/> 2190101	COM PROG (3a)	3 CREDITS
<input type="checkbox"/> 2301107	CALCULUS I (1a)	3 CREDITS
<input type="checkbox"/> 2304153	PHYSICS ENGS (2a)	3 CREDITS
<input type="checkbox"/> 2304193	PHYS LAB ENGS (co-2a)	1 CREDIT
<input type="checkbox"/> 2147111	EXPL ROBOTICS ENG	3 CREDITS
<input type="checkbox"/> 5501112	COM ENG I	3 CREDITS
<b>Total</b>		<b>19 CREDITS</b>

**Year 2/1**

<input type="checkbox"/> 2147207*	LIN ALG (1c)	3 CREDITS
<input type="checkbox"/> 2147208*	MULIT CAL (1c)	3 CREDITS
<input type="checkbox"/> 5501214	COM PRE SKIL (Pre 5501123)	3 CREDITS
<input type="checkbox"/> 2183212	STATICS (4a)	3 CREDITS
<input type="checkbox"/> 2147210*	FUND DIG CIR	3 CREDITS
<input type="checkbox"/> 2147214*	3D CAD MOD M-DSGN	3 CREDITS
<b>Total</b>		<b>18 CREDITS</b>

**Year 3/1**

<input type="checkbox"/> 2147320	FEED CON SYS (5b)	3 CREDITS
<input type="checkbox"/> 2147313*	DSGN MACH ELEM	3 CREDITS
<input type="checkbox"/> 2147105	DATA STRUC ALG (3b)	3 CREDITS
<input type="checkbox"/> 2147104*	ENGR DSGN THNK	3 CREDITS
<input type="checkbox"/> 2147301*	ROBOTICS LAB (6a)	1 CREDIT
<input type="checkbox"/> 2147311*	DIG LOG DSGN	3 CREDITS
<input type="checkbox"/> 2147332	AI	3 CREDITS
<b>Total</b>		<b>19 CREDITS</b>

**Year 3/3 (SUMMER)**

<input type="checkbox"/> 2140301	INDUS TRAINING	2 CREDITS
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**Year 4/1**

<input type="checkbox"/> 2147498*	CAPSTONE DSGN I (7a)	3 CREDITS
<input type="checkbox"/> XXXXXX	CONCENTRATION COURSE	3 CREDITS
<input type="checkbox"/> XXXXXX	CONCENTRATION COURSE	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS
<b>Total</b>		<b>15 CREDITS</b>

**SECOND SEMESTER**

**Year 1/2**

<input type="checkbox"/> 2301108	CALCULUS II (1b)	3 CREDITS
<input type="checkbox"/> 2304154	PHYS ELEC ENGS (2b)	3 CREDITS
<input type="checkbox"/> 2304194	PHYS ELEC LAB ENGS (co-2b)	1 CREDIT
<input type="checkbox"/> 2182203	PROB STAT ENG	3 CREDITS
<input type="checkbox"/> 5501123	COM ENG II (Pre 5501112)	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDIT
<b>Total</b>		<b>6 CREDITS</b>

**Year 2/2**

<input type="checkbox"/> 5501225	TECH WRIT (Pre 5501112)	3 CREDITS
<input type="checkbox"/> 2183213	MECH MAT (4b)	3 CREDITS
<input type="checkbox"/> 2147209*	DIFF-EQ MO-SIM-NUM (5a)/(co-4b)	4 CREDITS
<input type="checkbox"/> 2147215*	DSCI DVISU ANAL	3 CREDITS
<input type="checkbox"/> 2147216*	SE-SI-ACT ROB PROJ	3 CREDITS
<input type="checkbox"/> 2183231	DYNAMICS (4b)/(co-4a)	3 CREDITS
<b>Total</b>		<b>19 CREDITS</b>

**Year 3/2**

<input type="checkbox"/> 2147312*	ROBOTICS (4c)	3 CREDITS
<input type="checkbox"/> 2147302*	AUTO-ROB-INTEL PROJ (6b)	3 CREDITS
<input type="checkbox"/> XXXXXX	MARKET MANAGE ENG	3 CREDITS
<input type="checkbox"/> XXXXXX	CONCENTRATION COURSE	3 CREDITS
<input type="checkbox"/> XXXXXX	CONCENTRATION COURSE	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<b>Total</b>		<b>18 CREDITS</b>

**Year 4/2**

<input type="checkbox"/> 2147499*	CAPSTONE DSGN II (7b)	3 CREDITS
<input type="checkbox"/> XXXXXX	CONCENTRATION COURSE	3 CREDITS
<input type="checkbox"/> XXXXXX	GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> XXXXXX	FREE ELECTIVE	3 CREDITS
<b>Total</b>		<b>12 CREDITS</b>

**TOTAL CREDITS FOR GRADUATION**

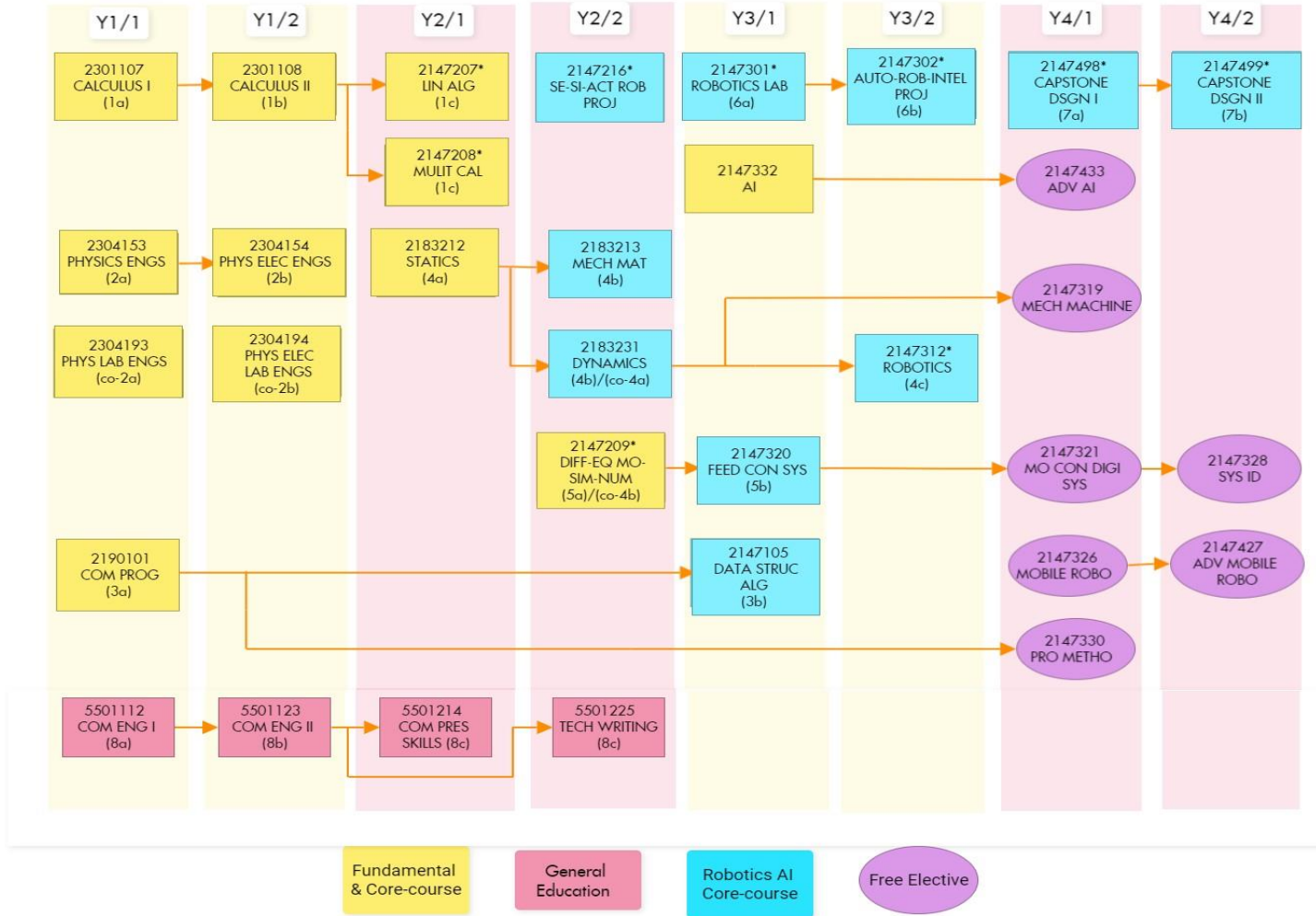
**138**

**Note**

- **Xa** is a prerequisite subject for Xb and Xb is also a prerequisite subject for Xc. (Example: Have to pass 2a before register 2b)

- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw Xa subject, you have to take/drop/withdraw co-Xa

## ROBOTICS AI Program (Apply for student ID 66-69)





# Course Guideline

## Nano Engineering (NANO) Program

(Apply for student ID 64 - Onwards)

### A. BIOENGINEERING

#### FIRST SEMESTER

##### Year 1/1

<input type="checkbox"/> 2183101 ENG GRAPHICS	3 CREDITS
<input type="checkbox"/> 2301107 CALCULUS I	3 CREDITS
<input type="checkbox"/> 2141100 INTRO NANO	3 CREDITS
<input type="checkbox"/> 2304153 PHYSICS ENGS	3 CREDITS
<input type="checkbox"/> 2304193 PHYSICS LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501112 COMM ENG I	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

##### Year 2/1

<input type="checkbox"/> 2182201 MATH NANO	3 CREDITS
<input type="checkbox"/> 2182210 ELEC CIRC	3 CREDITS
<input type="checkbox"/> 2183211 ENG MECH	4 CREDITS
<input type="checkbox"/> 2189202 FUND MAT SCI ENG	3 CREDITS
<input type="checkbox"/> 2302106 BSC ORG CHEM	3 CREDITS
<input type="checkbox"/> 2302203 ORG CHEM LAB	1 CREDIT
<input type="checkbox"/> 5501214 COM PRES SKIL	3 CREDITS
<b>Total</b>	<b>20 CREDITS</b>

##### Year 3/1

<input type="checkbox"/> 2189341 MAT CHARN	3 CREDITS
<input type="checkbox"/> 2182312 SIG PRO INSTR	3 CREDITS
<input type="checkbox"/> 2141355 INTRO BIOEN	3 CREDITS
<input type="checkbox"/> 2185373 REACT ENG	3 CREDITS
<input type="checkbox"/> 2310380 BIOCHEM BIOENG	3 CREDITS
<input type="checkbox"/> 2310381 BIOCHEM LAB BIOENG	1 CREDIT
<input type="checkbox"/> _____ GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>19 CREDITS</b>

##### Year 3/3 (SUMMER)

<input type="checkbox"/> 2140301 INDUS TRAINING (1C)	2 CREDITS
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##### Year 4/1

<input type="checkbox"/> 2141498 NANO PREPROJ	1 CREDIT
<input type="checkbox"/> _____ APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____ APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____ APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____ GENERAL EDUCATION	3 CREDITS
<input type="checkbox"/> _____ FREE ELECTIVE	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

##### Note

- **Xa** is a prerequisite subject for **Xb** and **Xb** is also a prerequisite subject for **Xc**. (Ex: Have to pass 2a before register 2b)

#### SECOND SEMESTER

##### Year 1/2

<input type="checkbox"/> 2140111 EXPL ENG WORLD	3 CREDITS
<input type="checkbox"/> 2183101 ENG GRAPHICS	3 CREDITS
<input type="checkbox"/> 2302105 CHEM ENGS	3 CREDITS
<input type="checkbox"/> 2302103 GEN CHEM LAB	1 CREDIT
<input type="checkbox"/> 2301108 CALCULUS II	3 CREDITS
<input type="checkbox"/> 2304154 PHYS ELEC ENGS	3 CREDITS
<input type="checkbox"/> 2304194 PHYS ELEC LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501123 COMM ENG II	3 CREDITS
<b>Total</b>	<b>20 CREDITS</b>

##### Year 2/2

<input type="checkbox"/> 2141290 STAT RES MET NANO	3 CREDITS
<input type="checkbox"/> 2182213 ELEC CIRC LAB	1 CREDITS
<input type="checkbox"/> 2303111 BIO ENG	3 CREDITS
<input type="checkbox"/> 2303112 BIOLOGY LAB ENGR	1 CREDIT
<input type="checkbox"/> 2185222 PHYS CHEM NANO	3 CREDITS
<input type="checkbox"/> 2302207 BASIC INOR CHEM	2 CREDITS
<input type="checkbox"/> 5501225 TECH2 WRITING	3 CREDITS
<input type="checkbox"/> _____ GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>19 CREDITS</b>

##### Year 3/2

<input type="checkbox"/> 2184303 ENG MGT	3 CREDITS
<input type="checkbox"/> 2141302 NANO FAB TECH	3 CREDITS
<input type="checkbox"/> 2185333 TRANS PHENOM	3 CREDITS
<input type="checkbox"/> 2141357 CELL BIO HUM BO	3 CREDITS
<input type="checkbox"/> 2189356 MAT BIOMED	3 CREDITS
<input type="checkbox"/> _____ GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

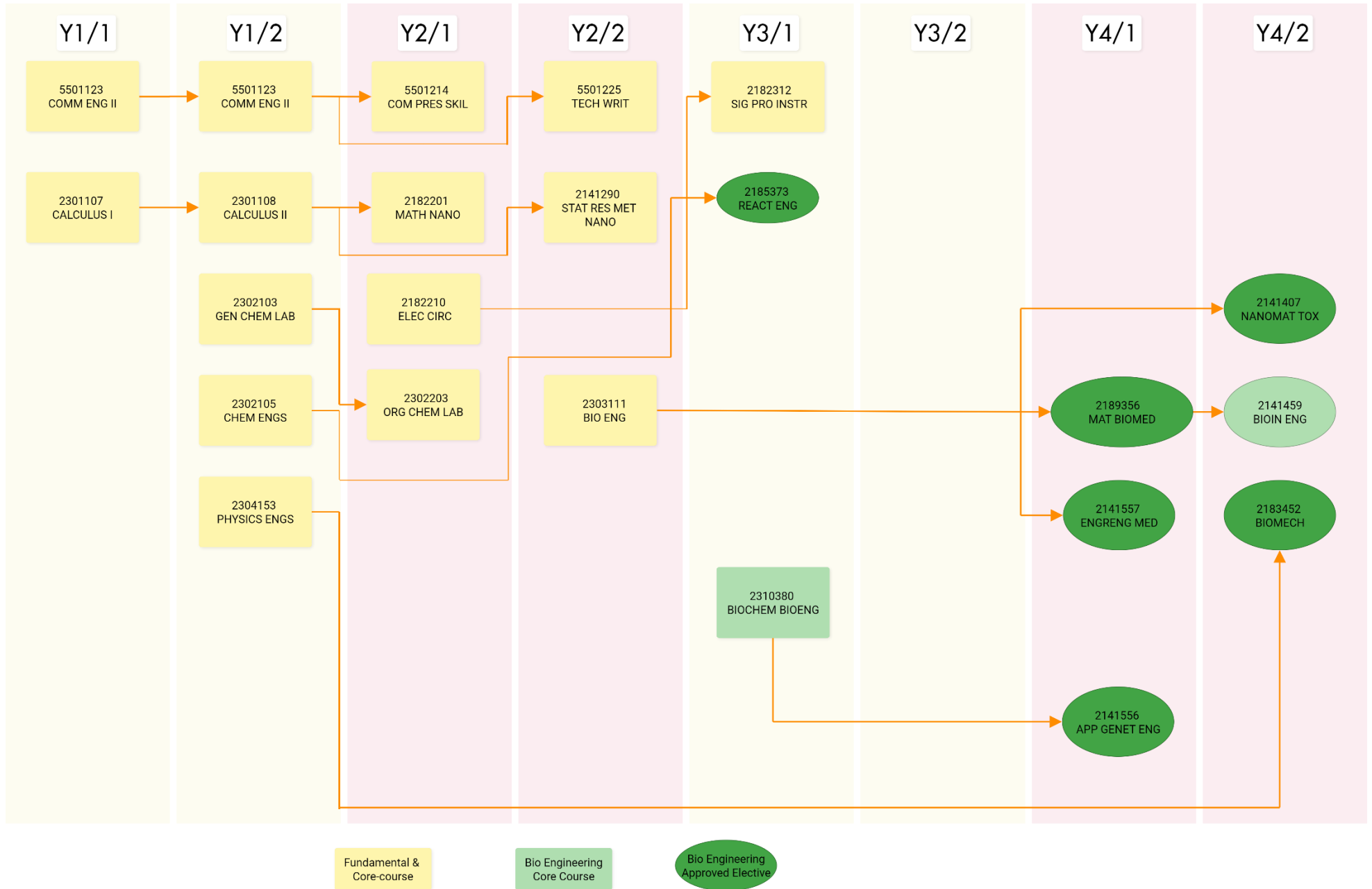
##### Year 4/2

<input type="checkbox"/> 2141490 NANO SEM	1 CREDITS
<input type="checkbox"/> 2141499 NANO ENG PROJ	3 CREDITS
<input type="checkbox"/> 2141485 NANO CAPSTONE	3 CREDITS
<input type="checkbox"/> _____ APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____ APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____ FREE ELECTIVE	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

**Total Credits for graduation 147**

# NANO Program (Apply for Student ID 64 - Onwards) A. Bioengineering

→ Pre-requisite  
— Co-requisite



# Course Guideline

## Nano Engineering (NANO) Program

(Apply for student ID 64 - Onwards)

### B. ADVANCED MATERIAL ENGINEERING

#### FIRST SEMESTER

#### SECOND SEMESTER

##### Year 1/1

<input type="checkbox"/> 2183101 ENG GRAPHICS	3 CREDITS
<input type="checkbox"/> 2301107 CALCULUS I	3 CREDITS
<input type="checkbox"/> 2141100 INTRO NANO	3 CREDITS
<input type="checkbox"/> 2304153 PHYSICS ENGS	3 CREDITS
<input type="checkbox"/> 2304193 PHYSICS LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501112 COMM ENG I	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

##### Year 1/2

<input type="checkbox"/> 2140111 EXPL ENG WORLD	3 CREDITS
<input type="checkbox"/> 2183101 ENG GRAPHICS	3 CREDITS
<input type="checkbox"/> 2302105 CHEM ENGS	3 CREDITS
<input type="checkbox"/> 2302103 GEN CHEM LAB	1 CREDIT
<input type="checkbox"/> 2301108 CALCULUS II	3 CREDITS
<input type="checkbox"/> 2304154 PHYS ELEC ENGS	3 CREDITS
<input type="checkbox"/> 2304194 PHYS ELEC LAB ENGS	1 CREDIT
<input type="checkbox"/> 5501123 COMM ENG II	3 CREDITS
<b>Total</b>	<b>20 CREDITS</b>

##### Year 2/1

<input type="checkbox"/> 2182201 MATH NANO	3 CREDITS
<input type="checkbox"/> 2182210 ELEC CIRC	3 CREDITS
<input type="checkbox"/> 2183211 ENG MECH	4 CREDITS
<input type="checkbox"/> 2189202 FUND MAT SCI ENG	3 CREDITS
<input type="checkbox"/> 2302106 BSC ORG CHEM	3 CREDITS
<input type="checkbox"/> 2302203 ORG CHEM LAB	1 CREDIT
<input type="checkbox"/> 5501214 COM PRES SKIL	3 CREDITS
<b>Total</b>	<b>20 CREDITS</b>

##### Year 2/2

<input type="checkbox"/> 2141290 STAT RES MET NANO	3 CREDITS
<input type="checkbox"/> 2182213 ELEC CIRC LAB	1 CREDITS
<input type="checkbox"/> 2303111 BIO ENG	3 CREDITS
<input type="checkbox"/> 2303112 BIOLOGY LAB ENGR	1 CREDIT
<input type="checkbox"/> 2185222 PHYS CHEM NANO	3 CREDITS
<input type="checkbox"/> 5501225 TECH2 WRITING	3 CREDITS
<input type="checkbox"/> _____GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>17 CREDITS</b>

##### Year 3/1

<input type="checkbox"/> 2189341 MAT CHARN	3 CREDITS
<input type="checkbox"/> 2182312 SIG PRO INSTR	3 CREDITS
<input type="checkbox"/> 2141305 NANOSTR CRYST DEFEC	3 CREDITS
<input type="checkbox"/> 2185302 THERMO MAT ENG	3 CREDITS
<input type="checkbox"/> 2185379 POLYMER ENG	3 CREDITS
<input type="checkbox"/> _____GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

##### Year 3/2

<input type="checkbox"/> 2184303 ENG MGT	3 CREDITS
<input type="checkbox"/> 2141302 NANO FAB TECH	3 CREDITS
<input type="checkbox"/> 2185333 TRANS PHENOM	3 CREDITS
<input type="checkbox"/> 2189322 PHA TRAN KINETICS	3 CREDITS
<input type="checkbox"/> 2189370 PHY MET	3 CREDITS
<input type="checkbox"/> _____GENERAL EDUCATION	3 CREDITS
<b>Total</b>	<b>18 CREDITS</b>

##### Year 1/3 (SUMMER)

<input type="checkbox"/> 2140301 INDUS TRAINING (1C)	2 CREDITS
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##### Year 4/1

<input type="checkbox"/> 2141498 NANO PREPROJ	1 CREDIT
<input type="checkbox"/> 2189411 MECH BEHAV MAT	3 CREDITS
<input type="checkbox"/> _____APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____General Education	3 CREDITS
<input type="checkbox"/> _____FREE ELECTIVE	3 CREDITS
<b>Total</b>	<b>19 CREDITS</b>

##### Year 4/2

<input type="checkbox"/> 2141490 NANO SEM	1 CREDITS
<input type="checkbox"/> 2141499 NANO ENG PROJ	3 CREDITS
<input type="checkbox"/> 2189450 MAT DSGN SEL	3 CREDITS
<input type="checkbox"/> 2141485 NANO CAPSTONE	3 CREDITS
<input type="checkbox"/> _____APPROVED ELECTIVE	3 CREDITS
<input type="checkbox"/> _____FREE ELECTIVE	3 CREDITS
<b>Total</b>	<b>16 CREDITS</b>

**Total Credits for graduation 147**

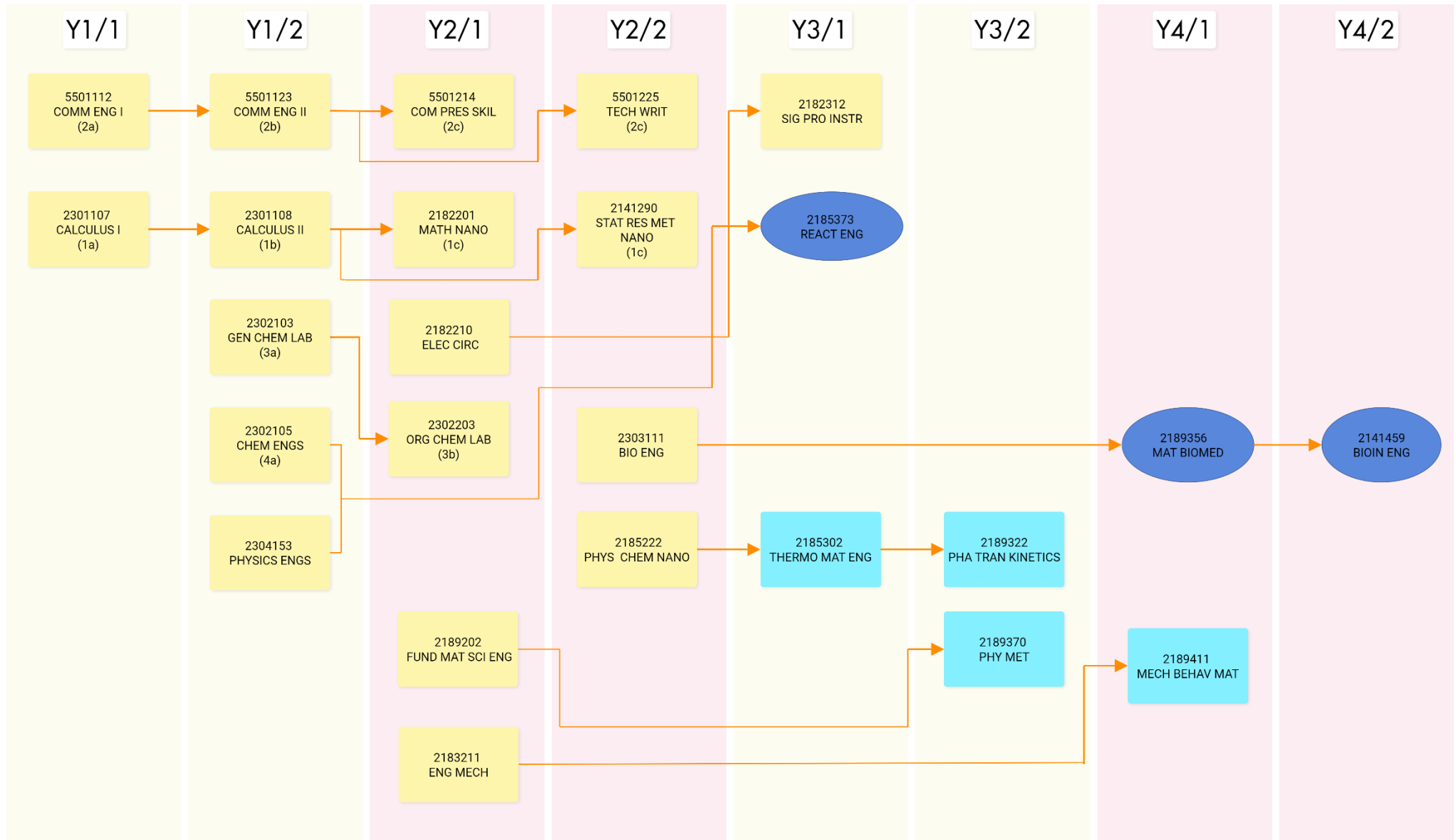
##### Note

- **Xa** is a prerequisite subject for **Xb** and **Xb** is also a prerequisite subject for **Xc**. (Ex: Have to pass 2a before register 2b)

# NANO Program (Apply for Student ID 64 - Onwards)

## B. Advance Material Engineering

→ Pre-requisite  
→ Co-requisite



Fundamental & Core-course

Advanced Material Engineering Core Course

Advanced Material Approved Elective