



# INDIANA AEROSPACE UNIVERSITY

IAU Town Center Basak, Kagudoy Rd., Lapu-Lapu City  
**BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING**  
 (Revised Curriculum per CHED Memo Order No. 30, S 2004)  
 Effective Academic Year 2013-2014

## FIRST YEAR

### FIRST SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Eng 100	Study & Thinking Skills in English	3	0	3	
Fil 100	Sining ng Pakikipagtalastasan	3	0	3	
Math 100	College Algebra	3	0	3	
Math 110	Plane & Spherical Trigonometry	3	0	3	
Draw 100	Engineering Drawing 1	0	6	2	
Chem 100	General Chemistry	3	3	4	
AE 100	Introduction to Aerospace Eng'g	3	3	4	
Comp 1	Basic Computer Programming	2	3	3	
CM 1	The Commandments & Morals	(1)	0	1	
P. E. 11	Self- Testing Activities	2	0	(2)	
NSTP 1	Civil Welfare Training Program 1	3	0	(3)	
		<b>22</b>	<b>15</b>	<b>31</b>	

### SECOND SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Engl 120	Writing in the Discipline Pagbasa at Pagsulat sa Iba't-Ibang	3	0	3	
Fil 2	Disiplina	3	0	3	
Math 120	Analytic and Solid Geometry	3	0	3	
Draw 120	Intro to CAD 2D & 3D Designs	2	3	3	
Chem 120	General Chemistry 2	3	3	4	
Hist 100	Philippine History & Culture	3	0	3	
Polsci	Philippine Gov't & Constitution	3	0	3	
Comp 1	Advanced Computer Programming	2	3	3	
AE 120	Air Laws & CAR	2	0	2	
CM 2	The Creed	(1)	0	(1)	
P. E. 12	Fundamentals of Rhythmic Activities	2	0	(2)	
NSTP 2	Civil Welfare Training Program 2	3	0	3	
		<b>26</b>	<b>9</b>	<b>33</b>	

## SUMMER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Math 220	Differential Calculus	4	0	4	
Lit 1	Philippine Literature in English	3	0	3	
CM 3	The Sacraments	1	0	1	
		<b>8</b>	<b>0</b>	<b>8</b>	

## SECOND YEAR

### FIRST SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Engl 200	Speech & Oral Communication	3	0	3	
Math 220	Integral Calculus	4	0	4	
Phys 210	Mechanics and Heat	3	3	4	
Socsci 1	Sociology w/ Family Planning	3	0	3	
Psych	General Psychology	3	0	3	
AE 210	Fundamentals of Aerospace Med.	3	0	3	
AE 211	Basic Electronics & Electrical Eng'g	3	3	4	
AE 222	Computational Met. In Aero. Eng'g	3	3	4	
PE 21	Group Games & Sports/Martial Arts	2	0	(2)	
		<b>25</b>	<b>9</b>	<b>31</b>	

### SECOND SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Engl 220	Technical Report Writing	3	0	3	
Math 310	Differential Equations	3	0	3	
Stat	Statistics	3	0	3	
Phys 220	Sound, Light, Elec. & Mag.	3	3	4	
Rizal	Rizal's Life, Work & Writings	3	0	3	
AE 220	Thermodynamics	3	0	3	
AE 221	Spacecraft & A/C Sys. & Ins.	3	3	4	
AE 311	Aircraft Material Science	3	0	3	
PE 22	Recreational Activities	2	0	(2)	
		<b>24</b>	<b>6</b>	<b>28</b>	

## SUMMER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Hum	Art Appreciation	3	0	3	
AE 212	Airspace Management	3	0	3	
Econ	Econ. w/ Taxation & Land Ref.	3	0	3	
		<b>9</b>	<b>0</b>	<b>9</b>	

## THIRD YEAR

### FIRST SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Math 320	Advanced Eng'g Mathematics	3	0	3	
AE 321	Engineering Mech-Statistics Intro to Space Sciences & Spacecraft	5	0	5	
AE 310	Applications	2	3	3	
AE 312	Eng'g Analysis of Manu. Proc.	3	3	4	
AE 313	Fundamentals of Aerodynamics	5	0	5	
AE 314	A/C Engines & Gas Turbines	3	6	5	
		<b>23</b>	<b>12</b>	<b>27</b>	

### SECOND SEMESTER

Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
AE 320	Eng'g Mechanics-Dynamics	5	0	5	
AE 322	Subsonic Aerodynamics Manufacturing w/ Advanced Composite	5	0	5	
AE 323	Materials	3	6	5	
AE 324	Rocket Propulsion	4	0	4	
AE 410	Strength of Materials	3	0	3	
Research 2	Thesis Writing 2	2	0	2	
		<b>22</b>	<b>6</b>	<b>24</b>	

**SUMMER**

<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>
Philo 1	Logic	3	0	3	
AE 411	Engineering Economics	3	0	3	
AE 424	A/C Airworthiness Certification	3	0	3	
		<b>9</b>	<b>0</b>	<b>9</b>	

**FOURTH YEAR**

<b>FIRST SEMESTER</b>					<b>SECOND SEMESTER</b>						
<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>	<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>
Lit 2	World Literature	3	0	3		AE 510	Aircraft Structural Mech.	5	0	5	
AE 413	A/C Structures Planning & Layouting	0	6	2		AE 511	Aircraft Design 1	3	6	5	
AE 414	Supersonic Aerodynamics	5	0	5		AE 513	Rotary Wing & Prop. Des.	3	3	4	
AE 420	Eng'g Mgmt w/ Feasibility Study	3	0	3		AE 514	Spacecraft Dynamics & Con	3	6	5	
AE 421	Celestial Mechanics	4	0	4		AE 515	Aeronautical Laboratory 1	2	6	4	
AE 422	Airline Management	2	0	2				<b>16</b>	<b>21</b>	<b>23</b>	
AE 423	Airline Schedule Planning	2	0	2							
		<b>19</b>	<b>6</b>	<b>21</b>							

**SUMMER**

<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>
AE 512	Principles of Autonomy & Decision Making	3	6	5	
AE 516	A/C Accident Investigation and Prevention	3	0	3	
		<b>6</b>	<b>6</b>	<b>8</b>	

**FIFTH YEAR**

<b>FIRST SEMESTER</b>					<b>SECOND SEMESTER</b>						
<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>	<b>Subcodes</b>	<b>Descriptive Titles</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>Pre Req</b>
AE 520	Aerospace Structures	5	0	5							
AE 521	Aerospace Design	3	6	5							
AE 522	Aeronautical Laboratory 2	2	6	4							
AE 523	Control Systems Engineering	3	6	5							
AE 524	A/C Prototype Design & Cons.	0	9	3							
AE 525	The Aerospace Industry	3	0	3							
		<b>16</b>	<b>27</b>	<b>25</b>							
							PRACTICUM OJT/Practicum 600 Hrs	<b>0</b>	<b>6</b>	<b>2</b>	
								<b>0</b>	<b>6</b>	<b>2</b>	