ASSOCIATE in SCIENCE Track 2 General Engineering WORKSHEET 2015-2016

Summary of Requirements

Complete a minimum of **90** credits in courses numbered 100 or above with a minimum of 2.0 GPA, plus **3** PE requirement credits including:

This degree is intended to prepare students to enter the second year of an Engineering Program after transfer. ENGR 104 is highly recommended for this specialization. In addition the following set of courses fulfills the specialization requirement of the Associate of Science degree and is appropriate for student studying Mechanical, Civil, Aeronautical, Industrial or Material Science Engineering. Taking courses from the recommended electives will fulfill some of the second year requirements at 4-year transfer schools.

General College Requirements

- 5 credits writing skills
- 10 credits quantitative skills
- 3 PE requirement credits •

Humanities and Social Science

- 5 credits social science
- 5 credits humanities
- 5 credits humanities or social science •

General Engineer Track II Specialization Courses

- 11 credits Chemistry •
- 10 credits Math •
- 15 credits Physics •
- 24 credits of Electives

plus

- fulfill all obligations to the college, • financial or otherwise
- fulfill general requirements for all degrees as described on page 46 of the catalog

Minimum grade-point average requirements are established by each institution. Meeting the minimum requirement does not guarantee admission. Business programs are competitive and may require a higher GPA overall, a higher subset of courses or a specific minimum grade in one or more courses.

General College Requirements (15 credits required)

I. Writing Skills (5 credits)

ENGL& 101	English Composition I
	English Composition I

II. Quantitative Skills (10 Credits)

MATH& 151	Calculus I	
MATH& 152	Calculus II	

Note: This worksheet is intended to be used for planning purposes. See Admissions and Records for official degree audit information.

III. Physical Education (3 Credits)

All students must complete three credits of physical education courses numbered 100 or above or HPF 101, Health and Wellness.

Course	Cr.

Humanities & Social Science **Distribution Area Requirements** (15 credits required)

Associate of Science Track 2 students must take at least 15 credits in the areas of the humanities, social sciences, (5 credits in each distribution area). With 5 additional credits in either humanities or social science

Social Science (5-10 credits)

One course from areas, labeled A through D, is required.

Area A: History

HIST& 116	Western Civilization I
HIST& 110	Western Civilization II
HIST& 117	western Civilization II
HIST& 118	Western Civilization III
HIST 122	Hist. of Modern East Asia
HIST& 146	U.S. History I
HIST& 147	U.S. History II
HIST& 148	U.S. History III
HIST& 214	Pacific NW History
HIST& 219	Native American History
HIST 220	20th Century Europe
HIST 252	Latin-American History
HIST 270	African-Americans in
	Slavery and Freedom
HIST 271	African-American History:
	1865-1975
HIST 272	History of England

Area B: Economics/Political Science

CJUS 102	Law and Society
ECON 100	Intro. to Economics
ECON& 201	Micro Economics
ECON& 202	Macro Economics
POL S 102	Law and Society
POLS& 202	American Government

Area C: Anthropology/Sociology

ANTH& 100	Intro. to Anthropology
ANTH& 206	Cultural Anthropology
SOC& 101	Introduction to Sociology
SOC 106	Juvenile Justice
SOC 112	Criminology
SOC 252	Marriage and Family

Area D: Psychology

PSYC& 100

Cr

Cr

5

5

5

General Psychology

Courses transferred from other colleges Area Course Cr.

Humanities (5-10 credits)

A total of five credits is required in humanities. A minimum of 5 required from areas, labeled A through G.

Area A: Visual Arts

ART& 100	Art Appreciation	5
ART 101	Drawing I	5
ART 104	Design I	5
ART 105	Design II	5

Cr

Cr

5

5

4

3

Cr

Area B: Theatrical Arts

Intro. to Theatre
Film Interpretation
Intro. to Acting
Intro. to Directing

Area C: Musical Arts

Cr

5

5

5

5

5

5

5

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Cr

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Cr

5

		Cr
MUSIC 100	Music	5
	Fundamentals	
MUSC& 105	Music Appreciation	5
MUSC& 121	Ear Training I	2
MUSC& 131	Music Theory I	3

Area D: Literary Arts

·	•	Cr
ENGL 208	Survey of British Lit. I	5
ENGL 209	Survey of British Lit. II	5
ENGL& 220	Shakespeare	5
ENGL& 244	Intro. to American Lit.	5
ENGL 252	Survey of World Lit.	5
ENGL 263	Survey of British Lit.	5
ENGL 275	Gender in Literature	5

Area E: Languages

		Cr
CHIN& 121	Chinese I	5
FRCH& 121-123	French I, II, III	5
GERM& 121-123	German I, II, III	5
ITAL 125	Italian I	5
JAPN& 121-123	Japanese I, II, III	5
LATIN 125	Latin I	5
POL 125	Polish I	5
RUSS 125	Russian I	5
SPAN& 121-123	Spanish I, II, III	5

Area F: Speech

			CI
SPG	CH 101	Fund of Speech	5
SPG	CH 201	Fund Grp Discussion	n 3
Area G	: Cultur	e and Ideas	
			Cr
LIN	G 101	Intro. World Lang.	5
PHI	L& 101	Intro. to Philosophy	5
Cours	ses transfo Course	erred from other coll	leges Cr.
Area	Course		Cr.

Math & Science Specialization Courses A total of thirty six (36) credits are required in science and math.

Chemistry Requirements 11 Credits

<i>.</i> 1		Cr
CHEM& 161	General Chemistry I(L)	5
CHEM& 162	General Chemistry II (L)	6

Math Requirements 10 Credits

MATH& 163	Calculus I	5
MATH 241	Differential Equations	5

Physics Requirements 15 Credits

PHYS& 221	Engineering Physics I	5
PHYS& 222	Engineering Physics II	5
PHYS& 223	Engineering Physics III	5

College Level Elective Credits Select at least 24 additional credits of Electives

Select remaining college level courses to reach a total of 90 credits. Select no more than 5 credits in this category that do not appear on the distribution requirements list or the specified electives on this worksheet. PE requirements cannot be used as electives.

Electives: The following courses are recommended as possible elective courses: ENGR& 104, 214, 215, 240; Math 220, 224; ENGL& 235.

Course	Cr.

Courses transferred from other colleges

Course	Cr.

Specified Electives

Specified electives represent specialized or advanced college-level transfer courses. They include courses in traditional and preprofessional fields, including business, engineering, computer science, and education. Degree students must choose a minimum of 20 additional credits selected from:

a. the distribution requirements previously listed **and/or**

ACCT& 201	Principles of Acct. I	5
ACCT& 202	Principles of Acct. II	5
ACCT& 202	Principles of Acct. III	5
ART 102	Drawing II	5
ART 102 ART 103		5
	Drawing III	
ART 251	Painting I	5
ART 252	Painting II	5
ART 260	Intro. to Printmaking	5
BUS& 101	Intro. to Business	5
BUS& 201	Business Law I	5
BIOL& 241	Human Anat. / Phys. I	5
BIOL& 242	Human Anat. / Phys. II	5
CHEM& 163	Gen Chem. w/Lab III	6
CHEM& 261	Org. Chem. w/Lab I	6
CHEM& 262	Org. Chem. w/Lab II	6
CHEM& 263	Org. Chem. w/Lab III	3
CHIN& 122	Chinese II	5
CHIN& 123	Chinese III	5
CJ& 101	Intro. to Crim. Justice	5
CJUS 151	Drugs and Our Society	5
EDUC 201		5
	Intro/Orient to Teaching	
EDUC 202	Education Practicum	3
ENGL& 235	Technical Writing	5
ENGL 241	Fiction Writing	2
ENGL 242	Poetry Writing	2
ENGL 243	Playwriting	2
ENGR& 104	Intro. to Engr. Design	5
ENGR& 214	Statics	5
ENGR& 215	Dynamics	5
ENGR 240	Applied Num. Methods	5
HS 101	Intro. to Human Services	
ITAL 126	Italian II	5
ITAL 127	Italian III	5
LATIN 126	Latin II	5
LATIN 127	Latin III	5
LIB 101	Intro. Info. Resource	2
LIB 120	Learning for the 21st	5
	Century	
MATH& 131	Math for Elem. Ed. 1	5
MATH& 132	Math for Elem. Ed. 2	5
MATH 220	Linear Math	5
MATH 220	Calculus 4	5
MATH 224	Differential Equations	5
MUSIC 117		1
	Beginning Piano I	1
MUSIC 118	Beginning Piano II	
MUSIC 119	Beginning Piano III	1
MUSC& 122	Ear Training 2	2
MUSC& 123	Ear Training 3	2
MUSC& 132	Music Theory 2	3
MUSC& 133	Music Theory 3	3
MUSIC 150-	11	-1.5
158		
	(Private Lessons)	
MUSIC 161-	Performance 1	-1.5
MUSIC 161- 168		-1.5
	Performance 1	-1.5

MUSIC 217	Intermediate Piano I	1
MUSIC 218	Intermediate Piano II	1
MUSIC 219	Intermediate Piano III	1
MUSC& 221	Ear Training 4	2
MUSC& 222	Ear Training 5	2
MUSC& 223	Ear Training 6	2
MUSIC 231	Intermediate Harmony	3
MUSIC 232	Advanced Harmony I	3
MUSIC 233	Advanced Harmony II	3
MUSIC 250-	Advanced Applied Music	2
. 258	(Private Lessons)	
MUSIC 261-	Performance Groups	1-1.5
. 286	-	
NUTR& 101	Nutrition	5
PHYS& 115	General Physics II	5
PHYS& 116	General Physics III	5
PHYS& 222	Engineering Physics II	5
PHYS& 223	Engineering Physics III	5
POL 126	Polish II	5
 POL 127	Polish III	5
POL S 110	Law and Justice	5
POL S 200	Foreign Policy of the U.S.	5
POL S 204	Intro, to Public Admin.	5
	Human Sexuality	5
PSYC& 200	Lifespan Psychology	5
PSYCH 210	Psychology of Adjustment	5
PSYC& 220	Abnormal Psychology	5
PSYC& 235	Positive Psychology	5
	Russian II	5
	Russian III	5
SOC& 201	Social Problems	5
THEA 151	Theatre Workshop	3
THEA 235	Stagecraft	4
THEA 235	Stage Lighting	4
THEA 230	Stage Makeup	3
	C 1	
* Bolded Courses	are recommended for possi	ble

* Bolded Courses are recommended for possible electives.