## **PHYSICAL SCIENCE**

Program Code: N.PSC.AS

#### Associate in Science (A.S.)

Graduation requirement — 60 semester hours

The following curriculum is designed to provide transfer students with the necessary background to complete a bachelor's degree with a major in one of the physical sciences.

Students should plan their transfer programs with a Parkland academic advisor or counselor and the catalog of the four-year college or university they plan to attend.

#### **Program Notes**

- Math requirements vary. All physical science majors must complete MAT 128. MAT 124 and 125 are prerequisites for MAT 128. Consult transfer institution about additional math.
- General Education Core Curriculum requirements for the Associate in Science (A.S.) degree do not fully satisfy the IAI General Education Core Curriculum (GECC) requirements. Additional courses to complete the GECC may be taken at Parkland or after transferring. Contact Counseling Services (U267) for guidance on GECC completion.
- Recommended courses are designed to facilitate completion of the A.S. degree and transfer into a four-year college or university with junior standing in a chosen academic path. Students are advised to follow the recommendations.

Cr Urc

# General Education Core Courses

(32–36 no	urs)		Cr. Hrs.
Communica	itions (9)		
COM 103	Introduction to	Public Speaking	3
ENG 101	Composition I.		3
ENG 102	Composition II		3
Humanities/	Fine Arts elective	es	6
<ul> <li>Must c.</li> </ul>	hoose one course	e from Humanities a	nd one from
Fine Ar			
		ectives	
<ul><li>Soc/Be</li></ul>	h Sci courses mu:	st be from at least t	WO
discipli			
<ul> <li>One co</li> </ul>	urse from Hum/F	ine Arts or Soc/Beh	Sci must
		culture requirement	
Mathematic	s elective		3-5
Recomme	nded: MAT 128 Cal	lculus and Analytic Ge	ometry I (3)
	` _	sed) elective	
		/-based) elective	
Recomm	ended Physical Sc	cience courses on fo	llowing page

#### A.S. Degree Requirement (8-9 hours)

Cr. Hrs.

Must include one additional mathematics and one additional physical or life science course.

Any AST, BIO, CHE, ESC, PHY, or SCI courses numbered 100 through 289 whose second digit is even, beyond the general education requirements in science, may fulfill the additional science course requirement.

Recommended: MAT 129 Calculus and Analytic Geometry II (4) Recommended Physical Science courses on following page

#### **Suggested Full-time Sequence**

FALL	SPRING	
1st Semester	2nd Semester	
ENG 101	ENG 102	
Hum/FA <i>or</i> Lang elec	Hum/FA or Lang elec	
Math elec	Math elec	
Phys Sci elec	Phys Sci elec	

FALL SPRING
3rd Semester 4th Semester
Phy Sci elec Life Sci elec
Math elec Math/Gen elec
Soc/Beh Sci elec Soc/Beh Sci elec
Lang/Gen elec Lang/Gen elec
COM 103

## **PHYSICAL SCIENCE**

continued

### **Recommended Courses**

Recommended Physical Science and Math courses for each concentration. Some courses fulfill General Education Core and A.S. degree requirements. Select options to meet the 6o-hour degree requirement.

	Astronomy/Physics N.PSC.AS.AST	Chemistry N.PSC.AS.CHE	Meteorology N.PSC.AS.MET	<b>Geology</b> N.PSC.AS.GEL
Physical	Science Electives			
*CHE 141	General Chemistry I 5	5		5
*CHE 142	General Chemistry II 5	5		5
CHE 203	Organic Chemistry I	3		
CHE 204	Organic Chemistry Lab I	2		
CHE 205	Organic Chemistry II	3		
CHE 206	Organic Chemistry Lab I	2		
*PHY 121	General Physics I			5
*PHY 122	General Physics II			5
*PHY 141	Mechanics4	4	4	
PHY 142	Electricity and Magnetism 4	4		
PHY 143	Modern Physics 4	4*		
ESC 101	Introduction to Weather		4	
ESC 102	Introduction to Physical Geology			4
Mathematics and Computer Science Electives				
*MAT 128	Calculus and Analytic Geometry I 5	5	5	5
*MAT 129	Calculus and Analytic Geometry II4	4	4	
*MAT 228	Calculus and Analytic Geometry III			
	and Introductory Matrix Theory 4	4**	4	
MAT 229	Differential Equations		5	
CSC 127	Introduction to Computing			
	with Engineering Applications		3	

<sup>\*</sup> These courses may be used to fulfill the General Education Core Curriculum (GECC) requirements.

<sup>\*\*</sup> PHY 143 and MAT 228 are not required for graduation but recommended for physical chemistry majors only.