2008-2009 Program Advising Guide

Department of Engineering and Physics
Math Building, Room 142
Telephone: (254) 968-9168
http://www.tarleton.edu/~physics/classicaltrack.html

for

Bachelor of Science in Physics (Astronomy & Classical Tracks)

Freshman Year				
Fall Semester	**Hours**		**Spring Semester**	**Hours**
ENGL 111 [a]	3		ENGL 112 [a]	3
MATH 120 [b]	4		MATH 209* (MATH 120)	4
PHYS 122*,[c] (MATH 120)	4		PHYS 242* (MATH 209, PHYS122)	4
PE or HLTH 101	2		Visual & Performing Arts	3
Approved CS elective	3			
Total	**16**		**Total**	**14**

Sophomore Year				
Fall Semester	**Hours**		**Spring Semester**	**Hours**
MATH 333* (MATH 209)	4		MATH 306* (MATH 209)	3
HIST 201	3		HIST 202	3
MATH 232*	3		PHYS 334* (PHYS242)	3
POLS 201	3		POLS 202	3
			Support Field [d]	4
Total	**13**		**Total**	**16**

Notes:

a. **English:** Students will be placed into English courses in accordance with the University's Placement and Continuing Enrollment Rules. Students must enroll in English during their first semester at Tarleton and every regular semester thereafter until the freshman English core curriculum requirement [i.e., ENGL 111 & 112] has been satisfied.

b. **Mathematics:** Students will be placed into mathematics courses in accordance with the University's Placement and Continuing Enrollment Rules. Students must enroll in mathematics during their first semester at Tarleton unless they are eligible for placement into college-level mathematics [MATH 107 or higher]. Students eligible for placement into college-level mathematics may choose to postpone initial mathematics enrollment until their second regular semester at Tarleton. Following initial mathematics enrollment, students must enroll in mathematics every regular semester thereafter until the freshman mathematics core curriculum requirement [MATH 107 or higher] has been satisfied.

c. **Physics:** Students whose math placement is below Math 120 (Calculus) or who don't have a strong high school algebra/trig. based physics background may want to take PHYS104 to improve their background. PHYS104 can be used as an elective course in the degree.

d. **Support Field:** The student will select a support field in consultation with their physics advisor and approved by the Department Head. Common support fields are Mathematics, Computer Science, Engineering, and Computer Science. The 26 hour Support field (at least 12 hours Advanced) and other elective courses must be chosen so that the final degree plan has at least 120 semester hours, at least 45 of which are advanced hours.

Astronomy Track

Junior/Senior Year				
Fall Semester (even)	**Hours**		**Spring Semester (odd)**	**Hours**
PHYS 331* (PHYS122, co MATH333, co MATH 306)	3		PHYS 430* (MATH 306, MATH 333)	3
PHYS 332* (PHYS242, co MATH 333, co MATH 306)	3		Social & Behavioral Core	3
Support Field [d]	6		Adv. Physics*	3
PHYS 103	3		Support Field [d]	6
Total	**15**		**Total**	**15**

Junior/Senior Year				
Fall Semester (odd)	**Hours**		**Spring Semester (even)**	**Hours**
PHYS 435* (MATH 334, MATH 306)	3		Communications	3
PHYS 333* (PHYS242, co MATH 333)	3		Support Field	6
Support Field [d]	4		Literature Core	3
PHYS 113	4		PHYS 403* (MATH 209, PHYS 242)	3
PHYS 488	2			
Total	**16**		**Total**	**15**

Classical Track

Junior/Senior Year				
Fall Semester (even)	**Hours**		**Spring Semester (odd)**	**Hours**
PHYS 331* (PHYS122, co MATH333, co MATH 306)	3		PHYS 430* (MATH 306, MATH 333)	3
PHYS 332* (PHYS242, co MATH 333, co MATH 306)	3		Social & Behavioral	3
Support Field [d]	6		Elective	4
Communications	3		Support Field [d]	6
Total	**15**		**Total**	**16**

Junior/Senior Year				
Fall Semester (odd)	**Hours**		**Spring Semester (even)**	**Hours**
PHYS 435* (MATH 334, MATH 306)	3		Physics Elective*	3
PHYS 333* (PHYS242, co MATH 333)	3		Support Field [d]	6
Support Field [d]	4		Literature Core	3
Adv. Physics*	3		Adv. Physics*	3
PHYS 488	2			
Total	**15**		**Total**	**15**

* Courses with Prerequisites

<u>By adding two or three additional courses and careful choice of approved electives, students can obtain a second BS degree in either Math or Computer Science.</u>