Appendix A
Description of course equivalencies between the institutional members of the
Texas Electronic Coalition for Physics

<u>Institutional Abbreviations</u>

Tarleton State University (TSU), Texas A&M University-Corpus Christi (TAMUCC), Texas A&M International University (TAMIU), Texas A&M University-Kingsville (TAMUK), West Texas A&M University (WTAMU)

TECP Course	Credit Hours	Pre-requisites (Co-requisites)*	TSU Course #	TAMUCC Course #	TAMIU Course #	TAMUK Course #	WTAMU Course #
Classical Mechanics	3	University Physics II (Calculus III or Differential Equations)	PHYS 331-3	PHYS 3311.001	PHYS 3315	PHYS 3313	PHYS 3330
Electromagnetic Field Theory	3	University Physics II (Calculus III or Differential Equations)	PHYS 332-3	PHYS 3490:301	PHYS 3320	PHYS 3323	PHYS 3340
Thermodynamics	3	University Physics II, Calculus III	PHYS 333-3	PHYS 3490:302	PHYS 3325	PHYS 3333	PHYS 3320
Modern Physics I	3	University Physics II (Calculus III or Differential Equations)	PHYS 334-3	PHYS 3312.001	PHYS 3310	PHYS 3343	PHYS 3310
Advanced Physics Laboratory	1	Modern Physics I	PHYS 486-1	PHYS 3490:303	PHYS 4399	PHYS 3110	PHYS 3450
Mathematical Methods of Physics	3	Calculus III or Differential Equations	PHYS 430-3	PHYS 3490:304	PHYS 4315	PHYS 4303	PHYS 4340
Computational Physics	3	University Physics II (Calculus III or Differential Equations and Introduction to Programming)	PHYS 486-3	PHYS 3490:305	PHYS 4399	PHYS 4383	PHYS 4350
Optics	3	Electromagnetic Field Theory	PHYS 432-3	PHYS 3490:306	PHYS 3305	PHYS 4323	PHYS 4330
Modern Physics II	3	Modern Physics I	PHYS 434-3	PHYS 3490:307	PHYS 4310	PHYS 4343	PHYS 4310
Quantum Physics	3	Modern Physics I , Calculus III and Differential Equations or Linear Algebra	PHYS 435-3	PHYS 3490:308	PHYS 4305	PHYS 4353	PHYS 4320
Solid State Physics	3	Modern Physics I	PHYS 436-3	PHYS 3490:309	PHYS 4399	PHYS 4390	PHYS 4370
Nuclear Physics	3	Modern Physics I	PHYS 437-3	PHYS 3490:310	PHYS 4399	PHYS 4460	PHYS 4360

* The co-requisites are enclosed within parenthesis.