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Student Learning Outcomes: PhD in Tropical Medicine

1. Demonstrate an advanced knowledge base in the major sub disciplines of the field of Tropical Medicine: bacteriology, virology, mycology, parasitology, immunology, molecular epidemiology, and infectious disease ecology and bioinformatics.
2. Demonstrate a mastery of technical and experimental methodologies required to conduct research in the field of Tropical Medicine.
3. Demonstrate the ability to plan, execute, interpret, and evaluate experimental studies in Tropical Medicine.
4. Demonstrate skills for instruction, assessment and mentoring of undergraduate, MS and PhD level students.
5. Demonstrate skills to verbally communicate scientific concepts and results in classroom lectures and other teaching formats and in professional seminars and presentations.
6. Demonstrate written communication skills as required in various professional duties including manuscript preparation for scientific publication, preparation of research grant applications, preparation of lecture notes, development of introductory and advanced courses in related disciplines.
7. Demonstrate sufficient mastery and scientific maturity to assess the work of peers in related fields.
8. Develop administrative skills to manage a research laboratory, supervise technical and professional staff, and assume responsibilities and provide leadership as a faculty member.

Curriculum Map

Intended Student Learning Outcomes*

Course or Activity	Tropical Medicine Knowledge Base	Mastery of Research Methods	Experimental Design & Execution	Instructional & Mentoring Skills	Written & Verbal Communication Skills	Peer evaluation & assessment	Manuscript, Grant Proposal & Course Development Skills	Research Laboratory Administration Skills
TRMD 603, 604, 605, 608	I,A			I,R	R	R		
TRMD 601, 606		I	I,R		I,R		I	
TRMD 607, 609, 650, 653, 671, 672, 673, 705	R,A	R,A	R	I	R			
TRMD 690	I,R	I,R	I,R	I,R	I,R,A	I,R	I,R	
TRMD 699		R	R		R		R	I
TRMD 700		R,A	R,A		R,A		R	R
TRMD 800		M,A	M,A		M,A		M	R

*"I"=introduced; "R"=reinforced and opportunity to practice; "M"=mastery at the senior or exit level; "A"=assessment evidence collected

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