ABMGG In-Training Exam Content Outline  
(Effective February 2018)

I. Basic Principles of Medical Genetics  
   A. Single gene inheritance  
      1) Risk assessment  
      2) General principles  
   B. Population genetics  
   C. Gene environment interactions  
   D. Genomics  
   E. Chromosome and gene structure and function  
   F. Population screening  
   G. Genetic counseling  
      1) Ethical issues  
   H. Chromosomal basis of inheritance  
   I. Cytogenetics

II. Cancer  
   A. Common familial and rare cancer syndromes

III. Clinical Genetics (Pediatric and Adult)  
   A. Connective tissue disorders, skeletal dysplasias  
   B. Hematologic disorders, cardiovascular disorders  
   C. Neurogenetic, neuromuscular disorders  
   D. Neurodegenerative disorders  
   E. Ophthalmologic, hearing loss disorders  
   F. Renal, pulmonary, gastrointestinal, immunologic disorders  
   G. Pharmacogenomics  
   H. Complex disorders (common adult disorders)  
      I. Mechanisms of birth defects

IV. Reproductive Genetics

V. Multiple Malformations/Dysmorphology  
   A. Common dysmorphic syndromes  
   B. Chromosomal disorders  
   C. Intellectual disability, autism  
   D. Congenital abnormalities  
   E. Multifactorial disorders  
   F. Long-term management

VI. Biochemical  
   A. Inborn errors of metabolism  
   B. Newborn screening