Recommended Progression
2008 Commencement Onwards

**Bachelor of Science (Biomedical Sciences)**
**S061**

Course Coordinator:
Dr Per Line

| | Code | Units of Study | Pre-requisite(s) | Convener | Tel |
|---|---|---|---|---|---|
| First and Second Academic Semesters | | | | | |
| Sem 1 | HET102 | Introductory Physiology | Nil | Per Line | 5214 |
| | HET124 | Energy & Motion | Nil | Tom Edwards | 8372 |
| | HMS111 | Engineering Mathematics 1 | VCE Mathematical Methods or equivalent | Chris Barling | 8289 |
| | | *First Year Elective Studies (choose one) or Elective sequence #1* | | | |
| Sem 2 | HET133 | Human Physiology | Nil | Per Line | 5214 |
| | HET182 | Electronic Systems | Nil | Alex Mazzolini | 8866 |
| | HMS112 | Engineering Mathematics 2 | HMS111 | Patrick Tobin | 8289 |
| | HIT2080 | Introduction to Programming | Nil | Feng Wang | 5065 |
| Third and Fourth Academic Semesters | | | | | |
| Sem 1 | HET128 | Physics 2 | HET182 & HET124 | Don Ward-Smith | 8865 |
| | HET210 | Electronics | HET182 & HMS112 | George Banky | 8318 |
| | HET240 | Cellular Biophysics | HET133; and either HET124 or HET182 | Andrew Wood | 8867 |
| | HMS213 | Engineering Mathematics 3B | HMS112 | Nian Li | 8265 |
| Sem 2 | HET230 | Cardiovascular Biophysics | HET240 | Andrew Wood | 8867 |
| | HET235 | Biomedical Electronics | HET210 or HET202 | David Simpson | 5212 |
| | HET260 | Renal and Respiratory Biophysics | HET133 and either HET124 or HET182 | John Patterson | 8862 |
| | HAC0001* | Careers in the Curriculum | Nil | | |
| | | *Business/Entrepreneurship Studies (choose one) or Elective sequence #2* | | | |
| Optional Biomedical IBL Year | | | | | |
| Sem 1 | HSW050 | Industry Based Learning | Completion of first 4 academic Semesters | Annette Pelgrim | 8753 |
| Sem 2 | HSW055 | Industry Based Learning | HSW050 | Annette Pelgrim | 8753 |
| Fifth and Sixth Academic Semesters | | | | | |
| Sem 1 | HET227 | Neurophysiology | HET133; and either HET148 or HET182 | John Patterson | 8862 |
| | HET408 | Biomedical Imaging & Emerging Technologies | HMS211 or HMS213 | David Liley | 8812 |
| | HET422* | Biomedical Project | 200 credit pooints excluding IBL | | |
| | | *Biomedical Elective Studies (choose one) or Elective sequence #3* | | | |
| Sem 2 | HET226 | Sensory Systems | HET102 or HET133 | Joe Ciorciari | 8563 |
| | HET419 | Physiological Modelling | HET128 or HMS213 | D Liley | 8812 |
| | HET426 | Instrumentation Project | Completion of Year 1 & 2 (recommended) | Anthony Bartel | 5271 |
| | | *Instrumentation/Computing Studies (choose one)* | | | |

* HAC0001 Careers in the Curriculum is a compulsory subject for students commencing from 2007. 100% fee exempt and no credit points

* HET422 Biomedical Project is a compulsory subject for students commencing from 2007. Can not be taken during IBL

**Bachelor of Science (Biomedical Sciences)**
**S061**



| Group | Code | Units of Study | Prerequisite(s) | Semester Offered |
|---|---|---|---|---|
| Compulsory Unit | HAC0001 | Careers in the Curriculum* | Nil | S1,S2 |
| Biomedical Sciences (BMS) Core Studies (all 12.5 CP) | HET102 | Introductory Physiology | Nil | S1 |
| | HET124 | Energy & Motion | Nil | S1 & S2 |
| | HET128 | Physics 2 | HET182 and HET124 | S1 |
| | HET133 | Human Physiology | Nil | S2 |
| | HET182 | Electronic Systems | Nil | S1 & S2 |
| | HET210 | Electronics | HET182 & HMS112 | S1 |
| | HET226 | Sensory Systems | HET102 or HET133 | S2 |
| | HET227 | Neurophysiology | HET133; and HET148 or HET182 | S1 |
| | HET230 | Cardiovascular Biophysics | HET240 | S2 |
| | HET235 | Biomedical Electronics | HET210 or HET202 | S2 |
| | HET240 | Cellular Biophysics | HET133 and either HET124 or HET182 | S1 |
| | HET260 | Renal & Respiratory Biophysics | HET133 and either HET124 or HET182 | S2 |
| | HET408 | Biomedical Imaging & Emerging Technologies | HMS211 or HMS213 | S1 |
| | HET419 | Physiological Modelling | HET128 or HMS213 | S2 |
| | HET422 | Biomedical Project* | 200 credit points excluding IBL. | S1 |
| | HET426 | Instrumentation Project | Recommended completion of years 1 and 2 | S2 |
| | HMS111 | Engineering Mathematics 1 | VCE Mathematical Methods or equivalent | S1 & S2 |
| | HMS112 | Engineering Mathematics 2 | HMS111 | S1 & S2 |
| | HMS213 | Engineering Mathematics 3B | HMS112 | S1 |
| | HIT2080 | Introduction to Programming | Nil | S1 & S2 |
| First Year Elective Studies (all 12.5 CP) | HMA103 | Statistics & Research Methods A | Nil | S1,S2 |
| | HES1510 | Chemistry 1 | Nil. Knowledge of Year 12 chemistry is required. | S1,S2 |
| | HAH103 | Critical Thinking | Nil | S1,S2 |
| Biomedical Elective Studies (all 12.5 CP) | HET219 | Neurological Monitoring | HET102 and (HET148 or HET202 or HET210) | S1 |
| | HET527 | Sleep and Attention | HET226 or HET219 | S1 |
| | HMA278 | Design & Measurement 2 | HMA103 | S1 & S2 |
| Instrumentation/ Computing Studies (all 12.5 CP) | HET103 | Photonics 1 | Nil | TBA |
| | HET214 | Circuits & Electronics 1 | HMS112 and HET182 | S2 |
| | HET312 | Control and Automation | HET182 and either HMS213 or HMS211 | S1 |
| | HET329 | Digital Signal & Image Processing | HMS211 or HMS213 | S2 |
| | HET417 | Photonics & Fibre Optics | Nil | S1 |
| | HET425 | Nucleonics and Spectroscopy | HET182 and HET124 | S1 |
| | HIT3181 | Technical Software Development (replaces HIT1052) | HIT2080 | S1 & S2 |
| | HIT3138 | Intelligent Systems | Nil | S2 |
| | HMS214 | Engineering Mathematics 4B | HMS112 | S2 |
| Business/ Entrepreneurship Studies (all 12.5 CP) | HBSG200 | New Venture Development & Management | Nil | S1 & S2 |
| | HES3380 | Engineering Management 1 | 100 credit points | S1 & S2 |
| | HES5380 | Engineering Management 2 | 100 credit points | S1 & S2 |

Students complete a minimum of 300 credit points according to the following rules:

250 credit points from Biomedical Sciences (BMS) Core Studies,

12.5 credit points chosen from First Year Elective Studies (or Elective sequence #1),

12.5 credit points chosen from Business/Entrepreneurship Studies (or Elective sequence #2),

12.5 credit points chosen from Biomedical Elective Studies (or Elective sequence #3), and a further

12.5 credit points chosen from Instrumentation/Computing Studies.

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* HET422 Biomedical Project is a compulsory subject for students commencing from 2007. Can not be taken during IBL

*Information updated September 2008.*