



**Amendments to ITEC Level 3 Diploma in Anatomy & Physiology  
from October 1<sup>st</sup> 2007**

Syllabus amendments (any changes have been highlighted in bold)

**Remove the specific Recommended Guided Learning Hours for each system and replace with overall RGLH of 50 hours**

2005 Learning Outcome Number	2005 Learning Outcome	2007 Learning Outcome	2007 Learning Outcome Number
7	Learning outcome <i>Understand the different fractures and their causes</i>	<b>Removed</b>	
14	Underpinning knowledge <ul style="list-style-type: none"> <li>◆ <i>Trunk/torso</i></li> <li>• <i>Trapezius • Sternocleido mastoid</i></li> <li>• <i>Erector Spinae • Splenius Capitis</i></li> <li>• <i>Latissimus Dorsi • Serratus Anterior</i></li> <li>• <i>Gluteus Maximus • Gluteus Medius</i></li> <li>• <i>Gluteus Minimus • Psoas</i></li> <li>• <i>Pectoralis Major and Minor</i></li> <li>• <i>Abdominus Rectus • Internal Oblique</i></li> <li>• <i>External Oblique • Abdominus transversalis • Rhomboid Major and Minor • Infraspinalis • Supraspinalis</i></li> <li>• <i>Teres Major • Teres Minor • Iliacus</i></li> <li>• <i>Subscapularis</i></li> <li>◆ <i>Arm</i></li> <li>• <i>Deltoid • Biceps • Triceps</i></li> <li>• <i>Brachialis • Coraco Brachialis</i></li> <li>• <i>Brachioradialis • Pronator Teres</i></li> <li>• <i>Supinator Radium Brevis</i></li> <li>• <i>Flexor Carpi Radialis • Extensor Carpi Radialis • Extensor Carpi Ulnaris • Flexor Carpi Ulnaris</i></li> <li>• <i>Flexor Carpi Digitorum</i></li> <li>• <i>Extensor Carpi Digitorum • Muscles of Thenar eminence</i></li> <li>• <i>Muscles of Hypothenar eminence</i></li> <li>◆ <i>Leg/Thigh</i></li> <li>• <i>Quadriceps: Rectus Femoris, Vastus Lateralis, Vastus Medialis, Vastus Intermedius • Hamstrings: Biceps Femoris, Semimembranosus, Semitendinosus • Adductor Longus</i></li> <li>• <i>Adductor Magnus • Adductor Brevis</i></li> <li>• <i>Gracilis • Sartorius</i></li> <li>◆ <i>Lower Leg</i></li> </ul>	Underpinning knowledge <ul style="list-style-type: none"> <li>◆ <i>Trunk/torso</i></li> <li>• <i>Trapezius • Sternocleido mastoid</i></li> <li>• <i>Erector Spinae • Splenius Capitis</i></li> <li>• <i>Latissimus Dorsi • Serratus Anterior</i></li> <li>• <i>Psoas • Pectoralis Major and Minor</i></li> <li>• <b><i>Rectus Abdominus • Internal Oblique • External Oblique</i></b></li> <li>• <b><i>Transversus Abdominus • Rhomboid Major and Minor • Infraspinalis</i></b></li> <li>• <i>Supraspinalis • Teres Major • Teres Minor • Iliacus • Subscapularis</i></li> <li>• <b><i>Quadratus Lumborum</i></b></li> <li>◆ <i>Arm</i></li> <li>• <i>Deltoid • Biceps • Triceps</i></li> <li>• <i>Brachialis • Coraco Brachialis</i></li> <li>• <i>Brachioradialis • Pronator Teres</i></li> <li>• <i>Supinator Radium Brevis</i></li> <li>• <i>Flexor Carpi Radialis • Extensor Carpi Radialis • Extensor Carpi Ulnaris • Flexor Carpi Ulnaris</i></li> <li>• <i>Flexor Carpi Digitorum</i></li> <li>• <i>Extensor Carpi Digitorum • Muscles of Thenar eminence</i></li> <li>• <i>Muscles of Hypothenar eminence</i></li> <li>◆ <i>Leg/Thigh</i></li> <li>• <i>Quadriceps: Rectus Femoris, Vastus Lateralis, Vastus Medialis, Vastus Intermedius • Hamstrings: Biceps Femoris, Semimembranosus, Semitendinosus • Adductor Longus</i></li> <li>• <i>Adductor Magnus • Adductor Brevis</i></li> <li>• <i>Gracilis • Sartorius • <b>Piriformis</b></i></li> <li>• <i><b>Gluteus Maximus • Gluteus Medius</b></i></li> <li>• <i><b>Gluteus Minimus</b></i></li> </ul>	<b>13</b>

	<ul style="list-style-type: none"> <li>• <i>Gastrocnemius</i> • <i>Tibialis Anterior</i></li> <li>• <i>Peroneus Longus</i> • <i>Flexor Digitorum Longus</i> • <i>Extensor Digitorum Longus</i></li> <li>• <i>Soleus</i></li> <li>• <i>Extensor Hallucis Longus</i></li> <li>◆ <i>Face, neck and scalp</i></li> <li>• <i>Orbicularis Oculi</i> • <i>Orbicularis Oris</i></li> <li>• <i>Masseter</i> • <i>Buccinator</i></li> <li>• <i>Levator Anguli Oris</i> • <i>Levator Labii Superioris</i> • <i>Depressor Anguli Oris</i></li> <li>• <i>Depressor Labii Inferioris</i></li> <li><i>Deptrssor Labii Oris</i> • <i>Mentalis</i></li> <li>• <i>Zygomaticus</i> • <i>Temporalis</i> • <i>Nasalis</i></li> <li>• <i>Procerous</i> • <i>Corrugator</i> • <i>Frontalis</i></li> <li>• <i>Occipitalis</i> • <i>Pterygoids</i></li> <li>• <i>Triangularis</i> • <i>Trapezius</i> • <i>Platysma</i></li> </ul>	<ul style="list-style-type: none"> <li>◆ <i>Lower Leg</i></li> <li>• <i>Gastrocnemius</i> • <i>Tibialis Anterior</i></li> <li>• <i>Peroneus Longus</i> • <i>Flexor Digitorum Longus</i> • <i>Extensor Digitorum Longus</i></li> <li>• <i>Soleus</i></li> <li>• <i>Extensor Hallucis Longus</i></li> <li>◆ <i>Face, neck and scalp</i></li> <li>• <i>Orbicularis Oculi</i> • <i>Orbicularis Oris</i></li> <li>• <i>Masseter</i> • <i>Buccinator</i></li> <li>• <i>Levator Anguli Oris</i> • <i>Levator Labii Superioris</i> • <i>Depressor Anguli Oris</i></li> <li>• <i>Depressor Labii Inferioris</i></li> <li>• <i>Mentalis</i> • <i>Zygomaticus</i></li> <li>• <i>Temporalis</i> • <i>Nasalis</i> • <i>Procerous</i></li> <li>• <i>Corrugator</i> • <i>Frontalis</i></li> <li>• <i>Occipitalis</i> • <i>Pterygoids</i></li> <li>• <i>Triangularis</i> • <i>Trapezius</i> • <i>Platysma</i></li> </ul>	
16	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>◆ <i>Epidermis</i></li> <li>• <i>Stratum Corneum</i> • <i>Stratum Lucidum</i></li> <li>• <i>Stratum Granulosum</i></li> <li>• <i>Stratum Spinosum/Malphigian layer</i></li> <li>• <i>Stratum Germinativum/Basal layer</i></li> <li>• <i>Melanocytes</i></li> <li>◆ <i>Dermis</i></li> <li>• <i>Blood supply</i> • <i>Lymphatic supply</i></li> <li>• <i>Hair follicle</i> • <i>Hair</i></li> <li>• <i>Sebaceous gland</i> • <i>Sweat glands: eccrine and apocrine</i> • <i>Sensory nerve endings</i> • <i>Dermal Papilla</i> • <i>Collagen</i> • <i>Elastin</i> • <i>Histeocytes</i> • <i>Mast Cells</i> • <i>Fibroblasts</i></li> <li>◆ <i>Subcutaneous layer</i></li> </ul>	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>◆ <i>Epidermis</i></li> <li>• <i>Stratum Corneum</i> • <i>Stratum Lucidum</i></li> <li>• <i>Stratum Granulosum</i></li> <li>• <i>Stratum Spinosum/Malphigian layer</i></li> <li>• <i>Stratum Germinativum/Basal layer</i></li> <li>• <i>Melanocytes</i></li> <li>◆ <i>Dermis</i></li> <li>• <i>Blood supply</i> • <i>Lymphatic supply</i></li> <li>• <i>Hair follicle</i> • <i>Hair</i></li> <li>• <i>Sebaceous gland</i> • <i>Sweat glands: eccrine and apocrine</i> • <i>Sensory nerve endings</i> • <i>Dermal Papilla</i> • <i>Collagen</i> • <i>Elastin</i> • <i>Histeocytes</i> • <i>Mast Cells</i> • <i>Fibroblasts</i> • <i>Erector pili muscle</i></li> <li>◆ <i>Subcutaneous layer</i></li> </ul>	15
17	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>• <i>Secretion</i> • <i>Heat Regulation</i></li> <li>• <i>Absorption</i> • <i>Protection</i></li> <li>• <i>Elimination</i> • <i>Sensation</i> • <i>Vitamin D formation (ergosterol)</i></li> <li>• <i>Keratinisation</i> • <i>Melanin Formation</i></li> </ul>	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>• <i>Secretion</i> • <i>Heat Regulation</i></li> <li>• <i>Absorption</i> • <i>Protection</i></li> <li>• <i>Elimination</i> • <i>Sensation</i> • <i>Vitamin D formation (7-dehydro-cholesterol)</i></li> <li>• <i>Keratinisation</i> • <i>Melanin Formation</i></li> </ul>	16
18	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>• <i>Dry</i> • <i>Oily</i> • <i>Dehydrated</i> • <i>Sensitive</i></li> <li>• <i>Combination</i></li> </ul>	<p>Underpinning knowledge</p> <ul style="list-style-type: none"> <li>• <b><i>White</i></b> • <b><i>Black</i></b> • <b><i>Asian type skin</i></b></li> <li>• <b><i>Mixed</i></b> • <i>Dry</i> • <i>Oily</i> • <i>Combination</i></li> <li>• <b><i>Mature skin</i></b> • <b><i>Young skin</i></b></li> </ul>	
23	<p>Learning outcome</p> <p><i>Understand and explain the process of Meiosis</i></p>	<p><b>Removed</b></p>	
32	<p>Learning outcome</p> <p><i>Understand and explain blood pressure</i></p>	<p>Learning outcome</p> <p><i>Understand and explain blood pressure and pulse</i></p>	30
34	<p>Underpinning knowledge</p> <p><i>To include the cause and effects of the following:</i></p> <ul style="list-style-type: none"> <li>• <i>Anaemia</i> • <i>Varicose veins</i></li> </ul>	<p>Underpinning knowledge</p> <p><i>To include the cause and effects of the following:</i></p> <ul style="list-style-type: none"> <li>• <i>Anaemia</i> • <i>Varicose veins</i></li> </ul>	32

	<ul style="list-style-type: none"> <li>• <i>Haemophilia</i> • <i>Arteriosclerosis</i></li> <li>• <i>Atherosclerosis</i> • <i>HIV/Aids</i> • <i>High blood pressure (hypertension)</i> • <i>Low blood pressure (hypotension)</i> • <i>High cholesterol</i> • <i>Hepatitis ABC</i></li> <li>• <i>Coronary thrombosis</i> • <i>Septicaemia</i></li> <li>• <i>Haemorrhoids</i> • <i>Phlebitis</i></li> <li>• <i>Thrombus</i> • <i>Leukaemia</i> • <i>Aneurism</i></li> <li>• <i>Stress</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Haemophilia</i> • <i>Arteriosclerosis</i></li> <li>• <i>Atherosclerosis</i> • <i>HIV/AIDS</i> • <i>High blood pressure (hypertension)</i> • <i>Low blood pressure (hypotension)</i> • <i>High cholesterol</i> • <i>Hepatitis A,B &amp; C</i></li> <li>• <i>Coronary thrombosis</i> • <i>Septicaemia</i></li> <li>• <i>Haemorrhoids</i> • <i>Phlebitis</i></li> <li>• <i>Thrombus</i> • <i>Leukaemia</i> • <i>Aneurism</i></li> <li>• <i>Stress</i></li> </ul>	
44	<p><b>Learning outcome</b>  <i>Understand and explain the structure and function of the brain and spinal cord</i></p>	<p><b>Learning outcome</b>  <i>Understand and <b>briefly</b> explain the structure and function of the brain and spinal cord</i></p>	<b>42</b>
47	<p><b>Learning outcome</b>  <i>Understand and explain the main plexus</i></p>	<b>Removed</b>	
	<b>NEW LEARNING OUTCOME</b>	<p><b>Learning outcome</b>  <i>Understand and <b>briefly</b> explain the <b>Olfactory system</b></i>  Underpinning knowledge  • <i>Nose</i> • <i><b>Olfactory membranes</b></i>  <i>(contain smell-sense cells)</i> • <i><b>Olfactory plexus</b></i></p>	<b>47</b>
63	<p><b>Learning outcome</b>  <i>Understand and explain the process by which food stuffs are broken down by the alimentary canal during the digestive process</i></p>	<p><b>Learning outcome</b>  <i>Understand and explain the process by which food stuffs are broken down <b>as they pass through the</b> alimentary canal during the digestive process</i></p>	<b>61</b>
71	<p>Underpinning knowledge  <i>To include:</i>  • <i>Cold and hot weather</i> • <i>Activity and inactivity</i></p>	<p>Underpinning knowledge  <i>To include:</i>  • <i>Cold and hot weather</i> • <i>Activity and inactivity</i> • <i><b>Stress</b></i></p>	<b>69</b>
73	<p>Underpinning knowledge  • <i>Cystitis</i> • <i>Kidney stones</i> • <i>Nephritis</i>  • <i>Glomemlonephritis (Pyelonephritis)</i></p>	<p>Underpinning knowledge  • <i>Cystitis</i> • <i>Kidney stones</i> • <i>Nephritis</i></p>	<b>71</b>
77	<p>Underpinning knowledge  <i>To include:</i>  • <i>Ectopic pregnancy</i> • <i>Amenorrhoea</i>  • <i>Dysmenorrhoea</i> • <i>Pre-menstrual syndrome</i> • <i>Polycystic ovarian syndrome</i> • <i>Endometriosis</i> • <i>Mastitis</i></p>	<p>Underpinning knowledge  <i>To include:</i>  • <i>Ectopic pregnancy</i> • <i>Amenorrhoea</i>  • <i>Dysmenorrhoea</i> • <i>Pre-menstrual syndrome</i> • <i>Polycystic ovarian syndrome</i> • <i>Endometriosis</i> • <i>Mastitis</i>  • <i><b>Stress</b></i></p>	<b>75</b>