UWE Bristol

BSc Paramedic Science Year 1 Overview Year 1 practice module: Paramedic Practice 1 Module Leader: Mark Wood (mark.wood@uwe.ac.uk)

Programme Lead: Kieran Brannigan (Kieran.brannigan@uwe.ac.uk)

Thank you for supporting a year 1 UWE BSc Paramedic Science student. The overall aims of year 1 is to provide the student with the *foundational skills* to develop competency in basic life support, history taking, patient assessment and development of basic differential diagnoses. Please use the contact details above if you require any support from the UWE paramedic team.

Timetable and skills overview:

| | Modules covered | Skills and procedures | | |
|-------------------|---|---|--|--|
| Timetabled blocks | (other than practice module) | (OSCEs highlighted in <mark>yellow</mark>) | | |
| | Interpersonal Skills for | Communication skills | | |
| | Paramedic Practice | History taking and taking clinical observations | | |
| Teaching block 1 | Principles of Prehospital | Airway management – OPA, NPA, BVM, positional | | |
| | Emergency Care | Basic life support including AED (adult and paediatric) | | |
| | Life sciences for Paramedic | Basic wound management | | |
| | Practice | Manual handling | | |
| | | Intramuscular injections | | |
| Placement block 1 | Community Placement – e.g., adult nursing home, fire service, patient transport | | | |
| | Medical Conditions | Structured patient assessment | | |
| | Emergency Care | Developing differential diagnoses | | |
| Teaching block 2 | | Basic clinical decision making | | |
| | | Supraglottic airways (LMA and <mark>iGel</mark>) | | |
| | | Newborn life support | | |
| | | Normal childbirth and delivery | | |
| Placement block 2 | SWAST emergency ambulance placement | | | |
| | ECG Interpretation for | ECG interpretation and decision making | | |
| Teaching block 3 | paramedic practice | Patient assessment simulation | | |
| | | Trauma equipment (MILS, scoop, vacuum mattress, splints and | | |
| | | binders, tourniquets, trauma dressings) | | |
| Placement block 3 | SWAST emergency ambulance placement | | | |

Final sign off decision making:

Expected developmental stage of the student by the end of Year 1

By the end of year 1 we would expect a UWE BSC Paramedic Science student to be operating at around the level of a competent ECA. They should be able to take a patient history and complete a basic patient assessment of an adult patient with minimal supervision from their Practice Educator and they should be able to independently communicate with the patient and any relatives or friends on scene. By the end of the year, they should also be starting to discuss differential diagnoses with their PEd and be able to explain the signs and symptoms that would indicate one preferred diagnosis over another for common presentations in adults. The student should be familiar with the more common medications that are given routinely for common presentations in adults and be independently accessing clinical guidelines to assist with clinical decision making alongside their PEd. The clinical skills of the student should align with the expectations outlined in their EOPs above, and they should be able to independently carry out skills that they have had OSCEs in this year. The students professional and personal conduct should meet the expectations outlined on the final record of achievement.

Elements of Practice

| EOP list | Req. level | Further detail |
|---|---------------|--|
| EOP1 Utilise communication technology | IND | E.G., the use of radio's, MDT, phone's and ePCR transmission |
| EOP2 Use appropriate moving and handling | | Either patient handling (e.g., use of carry chair or slide sheets) or equipment |
| techniques and equipment | | handling (e.g. physical transport of medical equipment) |
| EOP3 Identify and minimise potential on scene | MS | Be able to consider any risks to self, staff or public when on scene, and then |
| risks to maintain a safe working environment | | address them. (e.g., traffic at an RTC) |
| EOP4 Minimise cross-infection within scope of | IND | Any actions to address infection prevention control – e.g., the use of gloves, |
| your practice | | alcohol gel or masks. |
| EOP5 Obtain informed consent | MS | E.g., taking observations – explaining the procedure and risks, and getting consent |
| | | from the patient with minimal supervision |
| EOP6 Maintain patient confidentiality | IND | Ensuring that patient information is not shared without the patient's permission. |
| | | For example, with family, friends or bystanders. |
| EOP7 Maintain patient records appropriately in | IND | Independently complete core sections of the ePCR such as the HPC, observations |
| accordance with local and national policy | | or assessment documentation |
| EOP8 Check and replace emergency equipment | IND | Either as part of the VDI or after a significant incident – check and replace |
| LOPS check and replace emergency equipment | | equipment as required. |
| EOP9 Identify individual social care needs | IND | As part of a full patient assessment, the student should consider the patients |
| LOF 9 Identity individual social care needs | | |
| EOP10 Conduct a patient assessment including | MS | social care needs and report any concerns to the PEd. Take a full history of a patient and conduct a physical examination which may |
| | 1015 | |
| taking a history and physical examination EOP11 Undertake a complete set of clinical | IND | elements of an IPAP assessment based on PC. This should include a minimum of HR, RR, SpO2, manual BP and temperature |
| • | | |
| observations/vital signs | IND | performed and reported independently. |
| EOP12 Safely manage a patients' cervical spine | | A patient with potential or suspected c spine injury – e.g., MILS, collar, blocks. |
| EOP13 Manage the airway using basic positional | IND | To independently manage a patients airway with techniques such as HTCL or jaw |
| methods, suctioning and/or OPA/NPA | | thrust, OR the use of OPA/NPA's |
| EOP14 Ventilate a patient using a bag-valve mask, | IND | The use of a BVM to ventilate a patient, demonstrating a good CE grip with focus |
| reservoir and oxygen | | on adequate chest rise and fall. |
| EOP15 Insert and ventilate a patient using an iGel | MS | Under minimal supervision, insert an iGel as per OSCE requirements, confirm entry |
| | | with ETCO2 and ventilate looking for adequate chest rise. |
| EOP16 Undertake cardiac compressions during | IND | Independently undertake chest compressions at the correct depth, rate and |
| CPR | | allowing sufficient recoil. |
| EOP17 Administer oxygen therapy | IND | Select an appropriate delivery method (e.g. BVM, NRB, neb), and set up the |
| | | oxygen circuit. Gain informed consent and attach the oxygen. |
| EOP18 Undertake cardiac monitoring | IND | Attach all 10 ECG leads to the anatomically correct locations, instruct patient on |
| | | procedure and capture a good quality tracing, troubleshooting as needed. |
| EOP19 Interpret and identify 12-lead ECG rhythms | MS | Using a structured method, assess the ECG and with minimal supervision identify |
| | | the predominant rhythm and abnormalities. |
| EOP20 Administer an intramuscular injection | IND | Use correct technique (as per OSCE) to prepare deliver an intramuscular injection. |
| EOP21 Recognise the need for, prepare and | IND | Following a patient assessment, identify if any medications are required, and |
| administer a range of medications within scope of | | check clinical guidance. Prepare the medication (e.g. Entonox, IM adrenaline) and |
| practice | | administer the medication with informed consent. |
| EOP22 Manage a minor injury with appropriate | MS | E.g., use irrigation techniques, basic bandages and gauze and dress the wound |
| treatment and/or equipment | | appropriately. |
| EOP23 Communicate effectively with the patient | IND | Particularly in situations where communication is challenging, use communication |
| and their family/carers | | skills to build professional relationships and make decisions. |
| EOP24 Provide an accurate pre-alert/handover to | MS | With minimal supervision, handover the care of a patient to another HCP in a |
| the receiving healthcare professional | | structured way, such as ATMIST or SBAR. This could be a pre-alert or normal |
| | 1 | handover. |

UWE Bristol University of the West of England

BSc Paramedic Science Year 2 Overview

Year 2 practice module: Paramedic Practice 2 Module Leader: Lily Sheppard (<u>lily.Sheppard@uwe.ac.uk</u>) Programme Lead: Kieran Brannigan (<u>Kieran.brannigan@uwe.ac.uk</u>)

Thank you for supporting a year 2 UWE BSc Paramedic Science student. The overall aims of year 2 is to develop the students understanding and skills base in *specialist areas of practice*, such as extremes of age, mental health and trauma. The students will also be developing their leadership and communication skills in skills such as cardiac arrest management. Please use the contact details above if you require any support from the UWE paramedic team.

Timetable and skills overview:

| | Modules covered | Skills and procedures | | | | | |
|--------------------|---|---|--|--|--|--|--|
| Timetabled blocks | (other than practice module) | (OSCEs highlighted in <mark>yellow</mark>) | | | | | |
| | · · · · | | | | | | |
| | Paramedic Practice 2 | Communication skills across the lifespan | | | | | |
| | Evidence-Based | Paramedic Skills OSCEs – IV, IO, ETI, NC & NT (ETI/NC not in SWAST) | | | | | |
| Teaching block 1 | Paramedic Practice Ability to critique evidence | | | | | | |
| | Emergency Care of the | Recognition and management of certain conditions relating to older | | | | | |
| | Older Adult | adult care | | | | | |
| Placement block 1 | SWAST emergency ambulance placement/non-ambulance placement | | | | | | |
| | Psychosocial Aspects of | Adult and Paediatric Advanced Life Support | | | | | |
| To a shine blash 2 | Paramedic Practice | Knowledge of psychosocial patient presentations | | | | | |
| Teaching block 2 | Advanced Life Support | | | | | | |
| | Skills | | | | | | |
| Placement block 2 | SWAST emergency ambulance placement/non-ambulance placement | | | | | | |
| | Pre-Hospital Emergency | Recognition and management of paediatric presentations | | | | | |
| | Care of the Child | Emergency Obstetric Management | | | | | |
| Teaching block 3 | Trauma and Mass | Major Incident Management | | | | | |
| | Casualty Management | Trauma equipment (MILS, scoop, vacuum mattress, splints and | | | | | |
| | | binders, tourniquets, trauma dressings) | | | | | |
| Placement block 3 | SWAST emergency ambulance placement/non-ambulance placement | | | | | | |

Final sign off decision making:

Expected developmental stage of the student by the end of Year 2

By the end of year 2, we should be able to see an advancement in both the underpinning knowledge and confidence that a student is able to portray when attending a patient. Through the modules undertaken during second year, that student should be comfortably able to examine and offer guidance and referrals for paediatric, older adult and patients presenting with psychosocial concerns. Please bear in mind, the students may not be at a stage where they can independently feel confident in referral pathways for patients, but this confidence should be building. The clinical skills of the student should align with the expectations outlined in their EOPs above, and they should be able to independently carry out skills that they have had OSCEs in this year. The students professional and personal conduct should meet the expectations outlined on the final record of achievement.

Elements of Practice:

| EOP list | Req. | Further detail | | |
|--|-------|--|--|--|
| | level | | | |
| EOP1 Identify and minimise potential on scene risks | | Be able to consider any risks to self, staff or public when on scene, and then address | | |
| to maintain a safe working environment | | them. (e.g., traffic at an RTC). | | |
| EOP2 Undertake a leadership role during the clinical | | The student should have growing confidence in taking the lead role when managing | | |
| care of a patient | | patients across the severity of patient presentations. This can include management | | |
| | | of a range of presentations from falls patients to RTC scene management. | | |
| EOP3 Assess the patient's capacity to consent to | IND | Be able to undertake a capacity assessment on patients to determine their ability to | | |
| treatment | | provide informed consent. | | |
| EOP4 Obtain informed consent | IND | E.g., taking observations – explaining the procedure and risks, and getting consent | | |
| | | from the patient with minimal supervision. | | |
| EOP5 Obtain an appropriate patient history | IND | Be able to take a structured patient history from a variety of patient presentations. | | |
| EOP6 Undertake a physical examination to identify | IND | Be able to conduct a physical examination of a patient presenting with a medical | | |
| and manage a medical condition | | condition (eg. chest pain). | | |
| EOP7 Undertake a physical examination to identify | IND | Be able to conduct a physical examination of a patient presenting with a traumatic | | |
| and manage a traumatic injury | | injury (eg. #NOF). | | |
| EOP8 Undertake an assessment and consider the | MS | As part of a full patient assessment, the student should consider the patients social | | |
| management of a patient's social care needs | | care needs and how to manage these patients. | | |
| EOP9 Manage a patient with a time-critical | MS | Recognise and manage a patient who is presenting with a time-critical condition | | |
| condition | | (eg. Red-flag sepsis). | | |
| EOP10 Implement appropriate treatment based on | MS | Once receiving findings from observations and/or assessment, be able to assimilate | | |
| assessment findings | 1415 | this information into a working diagnosis and rough treatment plan. | | |
| 0 | | | | |
| EOP11 Insert and ventilate a patient using an iGel | IND | Be able to successfully manage a patient's airway by inserting an iGel. This must | | |
| | | include knowledge of indications, contra-indications and side-effects. | | |
| | | | | |
| EOP12 Insert an intravenous cannula | IND | Be able to successfully and consistently be able to gain IV access. This must include | | |
| | IND | knowledge of indications, contra-indications and side-effects. | | |
| | | | | |
| EOP13 Insert and obtain intra-osseous access | | Be able to successfully gain IO access. This must include knowledge of indications, | | |
| EOF 13 Insel t and obtain intra-osseous access | IND | | | |
| EOR14 Recognise the need for and administer | MS | contra-indications and side-effects. | | |
| EOP14 Recognise the need for, and administer | | Have a good understanding of the medications that are available to Paramedic and | | |
| medication whilst considering indications and | | be able to identify the situations where these are to be administered. | | |
| contraindications | ļ | | | |
| EOP15 Perform needle thoracocentesis | IND | Be able to successfully diagnoses a tension pneumothorax and perform needle | | |
| | | thoracocentesis. This must include knowledge of indications, contra-indications and | | |
| | | side-effects. | | |
| EOP16 Accurately refer a patient's care to another | MS | Once a treatment plan has been formulated, the student should be able to | | |
| healthcare professional | - | articulate the findings to refer the patient via alternative care pathways. | | |
| | | | | |
| EOP17 Identify and interpret 12-lead ECG rhythms | IND | Using a structured method, assess the ECG to identify the predominant rhythm and | | |
| , , , , | | abnormalities. | | |
| EOP18 Identify and manage patients who are | MS | Using the knowledge and understanding of ECGs, identify candidates who are | | |
| candidates for reperfusion therapy eg. PPCI | | suitable for reperfusion therapy. | | |
| EOP19 Utilise effective communication to provide a | IND | The student be able to confidently provide a handover of care to a receiving | | |
| comprehensive pre-alert or handover to a receiving | | healthcare professional. | | |
| | | | | |
| healthcare professional | | | | |

| | University BSc Paramedic S | cience Year 3 Overview | Elements of Practice: | | | |
|---|---|--|--|---|--|--|
| | of the West of Year 3 practice mod | ule: Paramedic Practice 3 | EOP list | Req. | Further detail | |
| Bristol | Bristol West of England Year 3 practice module: Paramedic Practice 3 Module Leader: Nick Miller (nick.miller@uwe.ac.uk) Module Leader: Nick Miller (nick.miller@uwe.ac.uk) | | | level | | |
| Programme Leader: Nick Miller (<u>hick.miller@uwe.ac.uk</u>) Programme Lead: Kieran Brannigan (Kieran.brannigan@uwe.ac.uk) | | EOP1 Minimise cross-infection within scope of practice | IND | Particularly when engaging in activities where contamination is more likely, student independently takes | | |
| | Programme Lead: N | leian brannigan (<u>Kielan brannigan@uwe.ac.uk</u>) | and maintain a sterile-field | | steps to reduce risk (e.g., use of PPE, alcohol gel and disinfecting wipes) | |
| | | | EOP2 Obtain a comprehensive patient history using the | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive history as per the | |
| Thank you for support | ting a year 3 LIWE BSc Paramedic Science | e student. The overall aims of year 3 is to develop confident decision | medical model | | medical model including PC, HPC, PMH, DHx, SHx, FHx and review of systems. | |
| | | ent skills and in depth understanding of clinical reasoning, treatment | EOP3 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of the | |
| | | | identify and manage respiratory conditions. | | respiratory system, consider differentials, and commence a management plan. | |
| and management ch | and management choices. Please use the contact details above if you require any support from the UWE paramedic team. | | EOP4 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of the | |
| Timetable and skills overview: | | identify and manage cardiac conditions | | cardiovascular system, consider differentials, and commence a management plan. | | |
| Timetable and sk | | i | EOP5 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of the | |
| Timetabled blocks | Modules covered. | Skills and procedures | identify and manage neurological conditions | | neurological system, consider differentials, and commence a management plan. | |
| Timetabled blocks | (other than practice module) | (OSCEs highlighted in <mark>yellow</mark>) | EOP6 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of the | |
| | Primary and Urgent Care within | Advanced physical assessment and clinical reasoning skills: | identify and manage acute abdominal conditions | IND | abdominal system, consider differentials, and commence a management plan in an acute presentation. | |
| | Paramedic Practice (part 1) | Neurological patient assessment | EOP7 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of a | |
| | Evolving Paramedic Practice | Abdominal patient assessment (GI, GU, vascular) | identify and manage traumatic injury and /or manage Musculo-skeletal conditions | | musculoskeletal injury, consider differentials, and commence a management plan. | |
| Teaching block 1 | (dissertation/research module) | Respiratory patient assessment | EOP8 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of an | |
| | (dissertation/research module) | Cardiovascular patient assessment | identify and manage endocrine emergencies. | | endocrine condition, consider differentials, and commence a management plan. | |
| | | 12 lead ECG assessment -STEMI and STEMI mimic recognition. | EOP9 Undertake a comprehensive examination to | IND | To the standard of the Year 3 OSCE book, INDEPENDENTLY complete a comprehensive assessment of the | |
| Placement block 1 | Emorgoneyamb | ulance placement and non-ambulance placement | identify and manage ear nose and throat conditions. | | ear, nose and throat, consider differentials, and commence a management plan. | |
| | Primary and Urgent Care within | Advanced physical assessment and clinical reasoning skills: | EOP10 Undertake an assessment of a patient's social | IND | As part of a full patient assessment, the student should independently consider the patients social care | |
| | Paramedic Practice (part 2) | Musculoskeletal patient assessment | care needs. | | needs and recommend any relevant management plans. | |
| | Law, Ethics and Leadership in | Ear, nose and throat assessment | EOP11 Undertake an assessment to identify mental | IND | Undertake an assessment of a patient experiencing mental health symptoms either as a primary or | |
| | <i>,</i> | | health related conditions. | | secondary complaint, and consider risk and treatment options. | |
| Teaching block 2 | Paramedic Practice | | EOP12 Implement appropriate treatment based on | IND | Following the comprehensive assessment of a presenting patient, the student should independently | |
| | | Mental health assessment | assessment findings | | decide on and implement an appropriate treatment plan. | |
| | | Palliative care OSCE - History taking, physical examination and clinical reasoning. | EOP13 Manage patients with a time critical condition | IND | The student should independently assess and manage a patient who requires emergency treatment – | |
| | | OSCE - HIStory taking, physical examination and clinical reasoning. | | | usually requiring minimal on scene time, a pre-alert and blue light transport. | |
| Placement block 2 | Emergency amb | ulance placement and non-ambulance placement | EOP14 Demonstrates an ability to manage an incident | IND | The student should independently 'run' an entire call episode without intervention - from the allocation | |
| | Applied paramedic | SIMULATION BLOCK – series of simulated events that cover | from the point of call to the discharge of care | | of the incident, patient assessment and management and either discharge or transport and handover. | |
| | pharmacology (pharmacology | common, and less common but serious presentations. | EOP15 Demonstrates professional standards in | IND | The student should consistently hold the standards required of them by the HCPC standards throughout | |
| Teaching block 3 | and therapeutics in prehospital | | accordance with the HCPC's guidance on conduct and | | the year. This includes the time spent with patients, as well as professionalism between patient episodes. | |
| | care) | | ethics for students, throughout the final year of | | | |
| Placement block 3 | · · · | ulance placement and non-ambulance placement | placement | | | |
| | | | EOP16 Recognise the need for a range of medications | IND | The student should be making recommendations for medications for a variety of patient presentations | |
| Final sign off dec | ision making: | | within scope of practice | | independently and administering the medications within relevant policies. | |
| | | EOP17 Demonstrates an understanding of the management of a controlled drug. | IND | Most likely through discussion, demonstrate an understanding of the controlled medications that paramedics carry, and the relevant policies and procedures around their management and | | |
| | Expected developmental stage of the student by the end of Year 3 | | management of a controlled drug. | | administration. | |
| By the end of year 3 we would expect a UWE BSc(Hons) Paramedic Science student to be operating as an independent paramedic. | | EOP18 Undertake a comprehensive assessment and | IND | Within the PEd's scope of practice, assess a wound and independently decide upon and perform any | | |
| They should be able to take a full patient history, complete a full assessment of a patient across all age ranges, and develop safe and | | manage a minor wound | | necessary interventions and treatment techniques including cleaning and dressing. | | |
| effective treatment plans. The level of input from their Practice Educator should diminish across the third year of placement. The rate | | EOP19 Use assessment skills to form a provisional | IND | Following a comprehensive assessment, discuss a list of differentials including the most likely and why, | | |
| at which this happens will vary between students, but for the first placement block the student should be showing signs of | | diagnosis and a list of differentials. | | less likely and why, and not likely and why. | | |
| independent practice. | | EOP20 Demonstrate the use of an appropriate | IND | Independently identify a patient suitable for referral to an alternative pathway, complete the referral and | | |
| In the second block, they should be able to manage most incidents with minimal assistance, and in the final block they should be able | | alternative patient care pathway, including identifying | | offer advice, discussion of red flags and safety netting to the patient and any family/friends as relevant. | | |
| to handle all incidents, with their placement educator validating their decisions. | | red flags and giving safety netting advice. | | | | |
| In addition, by the end of the final placement block: | | EOP21 Fully document and accurately refer a patient's | IND | Following the assessment and management of a patient, independently complete the relevant | | |
| • The students should be acting within the limits of their knowledge, skills, and experience. | | care to another healthcare professional. | | paperwork (e.g. EPCR) and provide a comprehensive handover to another HCP | | |
| • Have practised within the ethical boundaries of the profession, and has exercised a professional duty of care, in a non- | | EOP22 Interpret and act upon the 12 Lead ECG | IND | Independently interpret an ECG, confirm the preferred differential based on this and then make the | | |
| discriminatory manner. | | | | relevant clinical decision and management plan based on this. | | |
| | Demonstrated the need to respect and, so far as possible, upheld the rights, dignity, values, and autonomy of every service | | EOP23 Identify and manage patients who are | IND | Using relevant guidelines, independently identify a patient who needs immediate referral for reperfusion | |
| user. | | | candidates for reperfusion therapy; e.g. PCCI or stroke. | | (e.g., FAST positive, STEMI) | |
| | | | EOP24 Participate in and direct the extrication of a | IND | Independently manage the scene of vehicular extrication, making clinical decisions about the best | |
| Practised in accordance with current legislation, national, regional, and local guidelines, protocols and policies. | | | patient following a road traffic collision (including self- | | method of extrication and participating in the procedure. This includes decision making around self- | |
| Demonstrated an appropriate and professional attitude throughout. | | | extrication and entrapment). | 1 | extrication. | |