



Northbrook
College



MOTORSPORT ENGINEERING

Undergraduate courses
2025/26

WELCOME

Accelerate your future with a motorsport engineering degree at Northbrook College.

Taught at Shoreham Airport Campus, you'll gain first-hand industry experience in our specialist centre for aero, auto and motorsport engineering.

Additionally, you will have access to specialist facilities at our Broadwater Campus in Worthing. Machinery includes 3D printers, robots, lathes, vertical and horizontal milling machines, drilling machines and welding equipment, as well as Computer-Aided Design and the latest computer hardware and software.

You will also take part in educational trips to Motorsport and automotive Engineering companies, the University of Brighton and other leading organisations, which provide further industry exposure to state-of-the-art design, manufacturing, and wind-tunnel testing facilities.

Did you know that we're the current champions of the Student Motorsport Challenge? Be part of our winning team, preparing our Peugeot 107 race cars for track days across the UK. Read more about Team Northbrook Racing inside.



COURSES

FdEng Motorsport Engineering

Two years full-time | UCAS code: H330

This full-time course provides hands-on experience and understanding of the essential core disciplines within motorsport engineering, equipping you with the skills and depth of knowledge required to pursue a career within the motorsport or automotive industries.

You will gain the professional foundation required for a range of technical and management careers. This course will introduce you to the socioeconomic, legislative and environmental aspects of the motorsport industry and enable you to apply engineering principles and analytical techniques to formulate and resolve problems.

You'll have regular workshop time to develop your practical skills with the opportunity to work on a range of different motorsport related projects which form the basis of assignments.

BSc Motorsport Technology

One year full-time | UCAS code: H331

On successful completion of the FdEng Motorsport Engineering, you can progress on to our one-year BSc top-up course in Motorsport Technology.

This bespoke course further develops your understanding of powertrain engineering, mathematical methods and modelling. In addition, individual and group projects will provide you with opportunities to undertake industry-relevant research.

There is also an option to select between modules in aerodynamics and racing car design, or motorsport management and performance, to enhance your understanding of this dynamic and technologically advanced field.

Your future career

Graduates of this course have gone on to work for a variety of racing teams, including in Formula 1, as pit crew, in research and development or vehicle design. Many alumni have progressed to work for major manufacturers such as Aston Martin, Ford, Rolls Royce, Jaguar, Ricardo, Red Bull, McLaren and Aston Martin.



KEY FEATURES

- 1 > Exclusive facilities and workshops with a variety of vehicles including our City Car Cup race vehicles, our Formula Renault car and go-karts
- 2 > Strong industry links, with guest lectures, site visits and tours
- 3 > Industry-standard analytical and development software for CAD, Simulation and and CFD work
- 4 > Be part of Team Northbrook Racing and take our race car to track events nationally

UNIVERSITY OF BRIGHTON

Our motorsport engineering courses are validated by the University of Brighton.



University of Brighton

TEAM NORTHBROOK RACING

WINNERS!



TNR

As part of your degree, you will be part of Team Northbrook Racing and take on the Student Motorsport Challenge as part of the CityCar Cup Championship. The team are proud to have won the championship in 2022 and 2023, competing in a field of up to 40 cars.

This year Team Northbrook Racing will defend their title again and strive to make headway in the full national competition, having come third in 2023. TNR are delighted to be adding a second car entry in 2024, providing even more hands-on opportunities for students. This year's events will be held at Snetterton, Oulton Park, Donington, Cadwell Park, Silverstone and Brands Hatch. You can follow the team at [@tnr_motorsport](https://www.instagram.com/tnr_motorsport)

The Motorsport Engineering course is an invaluable stepping stone into a career in the industry. Getting real world experience at a live race weekend is a priceless part of that. The scenarios that develop over a race weekend can very rarely be simulated in a classroom or facility, so the skills that the students develop whilst dealing with these issues are something that will make them stand out in their careers.



MEET OUR RACE DRIVER

Richard Jepp, Race Driver
for Team Northbrook Racing



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Working alongside the lecturers and students since 2022 has been a great experience for me. I have learnt a great deal about how the college supports and nurtures their students to ensure they all have the best possible opportunities. The professionalism has been a stand out part. Keeping calm in stressful situations and making educated decisions when needed.

In 2022 the team and I battled through tough situations, keeping our heads up and continuing to believe in ourselves. We continued to improve both on and off the track, which showed in the results. Keeping in touch with the Student Motorsport Challenge leader, we were in a great position coming into the final race weekend held at the prestigious Silverstone Circuit. In the last race of the weekend we clinched victory and became Student Motorsport Champions for 2022! All the hard work throughout the season gave us the chance to achieve this, and the elation in the team was amazing to see. We then went on to win again in 2023! We are very much looking forward to our third title defence in 2024.

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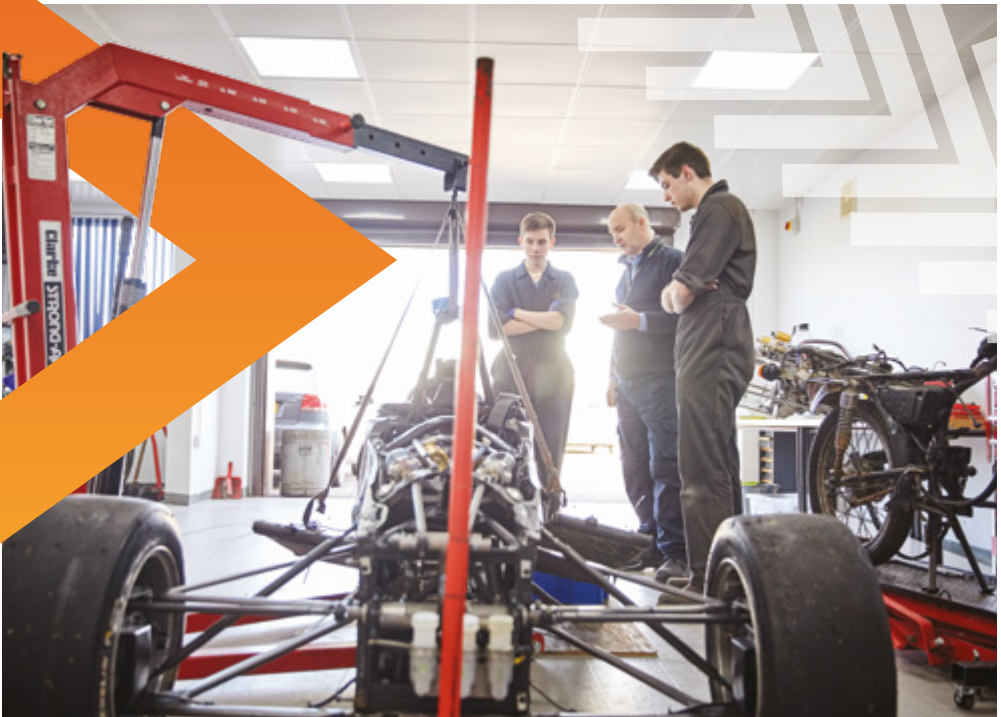
LOCATION

WORTHING & SHOREHAM

Worthing and Shoreham-by-Sea are seaside towns just along the coast from Brighton. Worthing is the largest town in Sussex. Both Worthing and Shoreham have a range of shops and pubs next to the seafront. The hills of the South Downs

and the Sussex countryside are within easy reach, and trains run through both towns and on to Brighton and London.

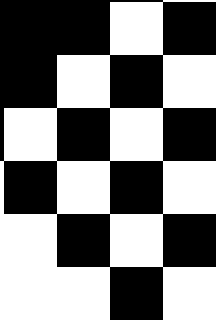
Shoreham-by-Sea (home to our Shoreham Airport Campus) has a real community atmosphere with bars, restaurants and the Ropetackle Arts Centre for live music, comedy and film screenings. If you want to get active outdoors, cycle the South Downs Link or try out paddleboarding on the River Adur. The town is just a short 15-minute train journey into Brighton and a 10-minute train journey from Worthing.



ACCOMMODATION

There are many websites which advertise spare rooms in shared houses and flats across Brighton, Shoreham-by-Sea and Worthing.

We also offer Northbrook higher education students the option to stay in Westgate Halls of Residence at Chichester College Campus.



The Student Motorsport Challenge has provided our students with an unrivalled opportunity to learn, compete and network in a professional motorsport environment.

Dr Emma Norton, Team Principal and Course Leader



ENTRY REQUIREMENTS

Applicants may have UCAS points ranging from a minimum of 48, usually with a qualification relevant to the course. We strongly advise that applicants will have achieved grade 9-4 (A*-C) in maths and English, or equivalent qualification.

We accept a wide range of Level 3 qualifications. If you have any questions regarding your qualifications, please get in touch with our Admissions team for advice.

For more information, visit northbrook.ac.uk/accommodation



HEAR FROM A GRADUATE...



“A good balance of theory and practical experience on the course allows for an adaptable skillset. Gaining in-depth engineering knowledge and also being able to apply that knowledge in hands-on tasks is something that is often overlooked and is hard to find in the industry. Northbrook gives you both skills. The smaller class sizes allow for a more personal education experience, giving greater 1:1 time and teaching focus that you don’t get elsewhere.”

Ben
BSc Motorsport Technology Graduate

HOW TO APPLY

If you are a UK student or have EU Settlement Status and are only applying to Northbrook College and no other universities or colleges, you can apply online using our short direct application form.



If you are applying to other universities/colleges as well as Northbrook College, please apply through UCAS (the Universities and Colleges Admissions Service). Please note Northbrook College is listed under the Chichester College Group UCAS profile. UCAS allows you to send your application to up to five universities. If you are currently at school or college, please ask your tutor for advice and a reference.

Please note, we accept applications all year round, including late applications as we may still have spaces on some of our courses right up until the course start date.

FEES & FINANCE

Up-to-date fees are published on our website at northbrook.ac.uk. You do not have to pay upfront if you are eligible for a UK student loan.

UK students and those with EU Settlement Status can apply for student loans from the Government to pay for their course fees and living costs while they are studying.

Apply online at gov.uk/student-finance

A number of bursaries will be available from the College for eligible students from low income backgrounds, care leavers, and some students who progress from other courses at Northbrook College.



For the most up-to-date information, please see northbrook.ac.uk/study-with-us/university-level/funding-your-course/

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