



# **KILDONAN-EAST COLLEGIATE**

*Reivers are Believers*



## **COURSE HANDBOOK**

**2025 - 2026**

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# GENERAL INFORMATION

Kildonan-East Collegiate is a comprehensive high school that offers a broad range of program choices for its students. This range, combined with its organizational structure that includes the semester system, allows a student to build a timetable that is closely aligned to their strengths and abilities. Kildonan-East's school philosophy places a high value on the individual student. Our staff members enjoy working with our students. We treat students with respect and expect the same in return. Our students are given responsibilities that are reasonable for students of high school age. Our rules and procedures are designed to help our students to develop into positive, mature citizens, and to create a safe and nurturing atmosphere that is conducive to learning. We take pride in building our reputation for excellence one student at a time. We wish you well in your upcoming year at Kildonan-East Collegiate.

## REIVER BELIEFS

**EXCELLENCE**

**SAFETY**

**RESPECT**

**RESPONSIBILITY**

**CITIZENSHIP**



# REGISTRATION INFORMATION

## Semester System

Students generally take one-half of their course load the first semester and the second half of their course load in semester two. Students are strongly advised to keep their course load balanced to ensure the greatest opportunity for success in their studies. Final assessments may be written at the end of the first semester and at the end of the second semester.

## Credit and Course Codes

A credit is earned by successfully completing 110 hours of instruction. A half-credit represents 55 hours of instruction. Students must earn a minimum of 30 credits to graduate from high school.

Each course is assigned an alpha-numeric code formed as follows:

### First Character

- 1 – courses developed for Grade 9
- 2 – courses developed for Grade 10
- 3 – courses developed for Grade 11
- 4 – courses developed for Grade 12

### Second Character

- 0 – developed or approved by Manitoba Education for 1 credit
- 5 – developed or approved by Manitoba Education for ½ credit
- 1 – developed by the school or division (includes SICs – School Initiated Courses and SIPs – Student Initiated Projects). These courses may be full or ½ credit courses.
- 2 – developed elsewhere and approved by Manitoba Education (Advanced Placement)

### Third Character

|           |                                   |   |
|-----------|-----------------------------------|---|
| <b>A</b>  | Advanced                          | Academically challenging courses leading up to AP courses.  |
| <b>AP</b> | Advanced Placement                | Academically challenging advanced placement AP courses at the Grade 12 level that are recognized for credit or placement at most post-secondary institutions. |
| <b>E</b>  | English as an Additional Language | Courses designated for newcomers who require assistance in English.   |
| <b>F</b>  | Foundation                        | Courses which are broadly based and appropriate for all students and which may lead to further studies beyond Grade 12.                                       |
| <b>FI</b> | French Immersion                  | Courses with French instruction and eligible for a French Immersion Diploma.  |
| <b>G</b>  | General                           | Courses that provide a general educational experience.  |
| <b>M</b>  | Modified                          | Courses in which the number, essence, and content of the curriculum outcomes are altered.   |

# ENGLISH & TECHNOLOGY EDUCATION GRADUATION REQUIREMENTS

| GRADE 9   | GRADE 10  | GRADE 11  | GRADE 12  |
|---|---|---|---|
| <b>Compulsory – 5 credits</b>   | <b>Compulsory – 5 credits</b>   | <b>Compulsory – 4 credits</b>   | <b>Compulsory – 3 credits</b>   |
| English Language Arts 10F (1 credit)<br>&<br>Life/Work Exploration 15S (0.5 credit) | English Language Arts 20F (1 credit)  | English (1 credit)<br>a) Comprehensive Focus 30S<br>or<br>b) Transactional Focus 30S<br>or<br>c) Literary Focus 30S | English (1 credit)<br>a) Comprehensive Focus 40S<br>or<br>b) Transactional Focus 40S<br>or<br>c) Literary Focus 40S |
| Mathematics 10F (1 credit)<br>&<br>Transitional Mathematics 10FT (1 credit)         | Mathematics (1 credit)<br>a) Essential 20S<br>or<br>b) Intro to Applied or Pre-Calculus 20S | Mathematics (1 credit)<br>a) Essential 30S<br>or<br>b) Applied 30S<br>or<br>c) Pre-Calculus 30S                     | Mathematics (1 credit)<br>d) Essential 40S<br>or<br>e) Applied 40S<br>or<br>a) Pre-Calculus 40S                     |
| Physical Education 10F (1 credit)   | Physical Education 20F (1 credit)   | Physical Education 30F (1 credit)   | Physical Education 40F (1 credit)   |
| Canada in the Contemporary World 10F (1 credit)                                     | Geography 20F (1 credit)  | History of Canada 30F (1 credit)  |   |
| Science 10F (1 credit)  | Science 20F (1 credit)  |   |   |
| Options – min. 3 credits  | Options - min. 3 credits<br>*Tech Ed Hairstyling only – 4 credits                           | Options – min. 3 credits<br>Tech Ed – 4 credits   | Options – min. 3 credits<br>Tech Ed – 4 credits   |
| <b>9.5 credits</b>  | <b>8 credits</b>  | <b>7 credits</b>  | <b>6 credits</b>  |
| *Technical Education begins in Grade 10 for Hairstyling only.                       |   |   |   |
| Minimum 30 credits required for graduation.   |   |   |   |

# DIPLOMAS AVAILABLE

Grade 9 to Grade 12, students earn course credits towards high school graduation. To obtain a Manitoba high school diploma, students must accumulate a minimum of 30 credits from a combination of compulsory and optional courses. The three Diplomas available at Kildonan-East Collegiate include:

## SENIOR YEARS ENGLISH DIPLOMA

The Senior Years English Diploma provides a sound education at the secondary level. It is organized to maintain a balance between the core subject areas of English, Mathematics, Social Studies, Science and Physical Education. Students select additional option courses to meet their specific needs and interests. This program may provide a basis for further education at the university or college level (please refer to Post-Secondary Requirements on page 11)

## TECHNOLOGY EDUCATION SENIOR YEARS DIPLOMA

The Senior Years Technology Education Diploma also offers a balance between core subject areas and a technology vocational area of the students' choice, with opportunities to select options. Kildonan-East Collegiate offers 11 separate Technology Education Diplomas, each of which provides training skills at the job entry level. When choosing courses, students should ensure they meet the entrance requirements of the post-secondary education and training, apprenticeship or private vocational training they plan to pursue.

AUTOMOTIVE TECHNOLOGY

BAKING AND PASTRY ARTS

CARPENTRY

CULINARY ARTS

COLLISION REPAIR AND REFINISHING TECH

ELECTRICAL TRADES TECHNOLOGY

GRAPHIC DESIGN

HAIRSTYLING

INTERACTIVE DIGITAL MEDIA

PHOTOGRAPHY

REFRIGERATION AND AIR CONDITIONING

# ADVANCED PLACEMENT COURSES

**Advanced Placement (AP42) courses** provide students with an opportunity to explore university-level course-work while studying in a familiar high school setting. Students begin with advanced courses in their grade 11 year in preparation for the Advanced Placement 42S courses. Advanced Placement 42S courses are offered through an external organization, The College Board. In order to ensure consistency and academic rigour, the College Board establishes the curriculum for each course. A final exam is held in May for each Advanced Placement 42 course and students are scored on a scale of 1-5 on the exam. Depending on the exam result and the guidelines for the university of choice, a student may be recognized for equivalent course credit at the university level. Students may choose to enrol in just one Advanced Placement course or may choose multiple courses depending on their interest and aptitude. Students who complete an Advanced Placement course benefit from the skills and experiences that come with engaging in extra academic challenge through exposure to a university level course while still attending their high school.

Any one course or more may be taken based on interest and aptitude.

| Grade 11                                     | Grade 12                                 |
|--|--|
| Biology: Advanced 30A                        | Biology 42AP                             |
| Chemistry: Advanced 30A & 40A                | Chemistry 42AP                           |
| English: Literary Focus 30A & 40A            | English: Literature and Composition 42AP |
| Mathematics: 30A & 40A Pre-Calculus Advanced | Mathematics: 42AP Pre-Calculus AB        |
|  |  |
|  |  |
|  |  |
|  |  |

# HIGH SCHOOL APPRENTICESHIP PROGRAM (HSAP)



The High School Apprenticeship Program (HSAP) is on-the-job experience with an employer. HSAP provides practical, paid, work experience and credit towards your high school diploma. The purpose of HSAP is to provide an opportunity for early entry in the trades and build interest with youth. Students are then able to transfer their hours of HSAP on-the-job training after graduation to a Level One apprenticeship training program in any apprenticeship program. This program is ideal for students who:

- Are currently working in the skilled trades
- Are interested in a career in the skilled trades
- Are enthusiastic about joining the workforce
- Have a parent or relative currently working in the trades

HSAP provides practical, paid, work experience and the opportunity to:

- Get hands-on experience
- Earn up to 8 supplemental high school credits
- Obtain financial incentives that cover tuition costs for post-secondary training
- Avoid long wait times for post-secondary trade training
- Apply your on-the-job training hours to continued, full-time apprenticeship training after graduation

Students eligible for HSAP are:

- 16 years of age or older
- Currently enrolled in high school courses (academic or technical vocational stream)
- Either employed in a qualifying trade (over 40 trades) or looking for employment
- Have an employer who is willing to take them on as an apprentice

More information about Apprenticeship can be found at:

- River East Transcona School Division Website: [www.retsd.mb.ca](http://www.retsd.mb.ca)
- Apprenticeship Manitoba Website: [www.gov.mb.ca/aesi/apprenticeship](http://www.gov.mb.ca/aesi/apprenticeship)



# OTHER CREDIT OPTIONS

## Community Service Credit (Student-Initiated Project)

The skills, knowledge, and attitudes gained through community service can increase a student's confidence and maturity, and provide more awareness of the needs of others in the community. Students participating in such an activity may earn a credit towards graduation. Students must apply through Student Services before beginning a service project.

## Credit for Employment

Students gain valuable skills through on-the-job work experience, therefore the Credit for Employment (CFE) credit is available to provide students with the opportunity to earn up to 2 high school credits for paid employment. CFE can enrich students' understanding of the relevance of education and the importance of developing career readiness. Students must be 16 years of age or older and are responsible for finding their own employment. Students must hold a minimum of a 0.5 credit in a career development course (Life Exploration 10S) to be eligible.

## Special Language Credit

Students can apply to gain up to four academic credits in a Heritage language. More information is available from our Student Services Department. Exams can be written in either fall or spring.

## Challenge for Credit

The educational system recognizes that students may, in exceptional circumstances, have already acquired the knowledge, skills and attitudes of a particular course. The Challenge for Credit Option provides a process for students to demonstrate that they have achieved learning outcomes as defined in the Manitoba Curriculum for a directly related course. Please see a school counsellor for more details.

This option is intended to serve particular needs such as:

- Students who, by virtue of special talents or private study, can be accelerated in particular subject areas.
- Students transferring into a Manitoba school from another jurisdiction whose placement in a subject/grade would be facilitated by such a provision.
- Students whose educational attendance has been interrupted through sickness or other reasons and who may be able to successfully challenge the learning outcomes of a particular subject area, in which they were previously unable to enroll.
- Students who were previously home schooled.
- Students who are considered exceptional achievers in a certain area.
- Students who can demonstrate that they have met course requirements through life experiences such as independent study, world of work, volunteer activities, and hobbies.

# INTENSIVE TECHNICAL VOCATIONAL PROGRAM INFORMATION

RETSD students can apply to take Technology Education courses at Kildonan-East Collegiate and Murdoch MacKay Collegiate, beginning in their grade 11 year. The exception to this is Hairstyling, which begins in their grade 10 school year. The courses being offered at each school include:

## Kildonan-East Collegiate

Automotive Technology  
Baking and Pastry Arts  
Carpentry  
Culinary Arts  
Collision Repair and Refinishing Technology  
Electrical Trades Technology  
Graphic Design  
Hairstyling  
Interactive Digital Media  
Photography  
Refrigeration and Air Conditioning

## Murdoch MacKay Collegiate

Carpentry  
Fashion Technology

Successful applicants will spend one semester in grade 11 at their home school completing academics and one semester at either Kildonan-East Collegiate or Murdoch MacKay Collegiate, taking their selected vocation. The same applies for grade 12.

## **Program Requirements**

- Two-year commitment (Hairstyling is a three-year commitment)
- Attendance in good standing
- On track for graduation
- Awareness and commitment to complete an all-day course every day for a full semester
- Be responsible for own transportation to and from Kildonan-East Collegiate or Murdoch MacKay Collegiate.
- Completion of Expression of Interest application
- Students are responsible for purchasing/supplying their own safety clothing (PPE) and supplies.
- Students are responsible for ensuring appropriate dress and providing PPE and supplies as indicated for each vocation.

# AUTOMOTIVE TECHNOLOGY - KEC



Challenge yourself in an interesting and technical field. The Automotive Technology Program will help you gain knowledge and develop skills in a dynamic environment, that includes current trends in the Automotive industry. You will learn how to inspect, service, and repair mechanical and electronic systems that are common on a modern vehicle. Upon completion you may qualify for any of the following options:

- Direct entry into the workplace
- Challenge level 1 apprenticeship exam
- Enter the second year of the automotive diploma courses at Red River College

## THIS PROGRAM INCLUDES

- ELECTRICAL SYSTEMS
- BRAKE SYSTEMS
- CV ASSEMBLY
- DRIVETRAIN/  
TRANSMISSION SYSTEMS
- ENGINE FUNDAMENTALS
- ENGINE RECONDITIONING
- ENGINE DIAGNOSTICS
- ELECTRONIC SYSTEMS
- FUEL SYSTEMS
- LIGHT SERVICE AND REPAIR
- SUSPENSION SYSTEMS
- SHOP SAFETY
- WHMIS TRAINING

## CAREER OPPORTUNITIES

- AIRCRAFT INDUSTRY
- AUTO PARTS SPECIALIST
- MOTORSPORT COMPANIES
- MOTOR VEHICLE MECHANIC
- POWER EQUIPMENT
- TIRE/ALIGNMENT SPECIALIST
- TRUCKING COMPANIES

## STUDENTS NEED TO SUPPLY

- CSA approved steel toed boots or shoes
- CSA approved clear safety glasses
- Work clothing or coveralls (covering arms, legs and body)

## APPRENTICESHIP PROGRAM OPTION

Students who maintain an average of 70% or higher at the end of the eight courses and have earned the required hours will be eligible for Level 1 apprenticeship status. This program is accredited by Manitoba Apprenticeship. Qualified students will also receive 900 credit hours towards the required 1800 per level. An additional 900 credit hours can be earned through part time employment and the High School Apprenticeship Program.

## GRADE 11 • 4 CREDITS

AT20SASS AUTOMOTIVE SYSTEMS AND SERVICE 20S  
AT30SDFS DRIVE TRAIN FUNDAMENTALS SERVICE 30S  
AT30SCFS CHASSIS FUNDAMENTALS & SERVICE 30S  
AT30SEFS ENGINE FUNDAMENTALS & SERVICE 30S

Students will learn to safely perform preventive maintenance, basic automotive repairs, and detect problems through early warning signs. Students will learn engine reconditioning, drive train systems, brake systems, and wheel alignment. Classes combine knowledge-based theory and hands-on shop work.

## GRADE 12 • 4 CREDITS

AT40SAES AUTOMOTIVE ELECTRICAL  
SYSTEMS 40S

AT40SVS1 VEHICLE SYSTEMS PART 1 40S

AT40SVS2 VEHICLE SYSTEMS PART 2 40S

AT40SADS APPLIED DIAGNOSTIC  
STRATEGIES 40S

The focus of these courses is on current technology and advanced automotive systems. Students learn about engine and emission controls, airbag and antilock brake systems, automotive electrical system basics and diagnostic strategies to help them find system faults. Career preparation and school to work programming are presented.

# BAKING AND PASTRY ARTS - KEC

## GRADE 11 • 4 CREDITS

BP20SI INTRO BAKING AND PASTRY ARTS 20S  
BP30SBCDP QUICK BREADS, COOKIES, DONUTS  
AND PIES 30S

BP30SYDP YEAST DOUGH PRODUCTS 30S  
BP30SCFD CAKES, FILLINGS, ICINGS AND  
DECORATIONS 30S

The following topics will be covered: Sanitation and Safety, Baking Equipment and Ingredients, Quick Breads, Doughnuts/Fritters, Pancakes and Waffles, Cookies, Pies, Syrups/Creams/Sauces, Lean and Rich Yeast Dough Products, Custards/Puddings/ Mousse and Soufflés, Pastry Basics, Cake Mixing/Baking, Cake Assembly/Decorating, Fruit Desserts and Flambé. Strong math skills are recommended.

## GRADE 12 • 4 CREDITS

BP40STSP TARTS AND SPECIAL PASTRIES 40S  
BP40SMCDP MODERN AND CLASSIC DESSERTS  
AND PLATING 40S

BP40SABP ADVANCED BREAD PRODUCTS 40S  
BP40SABK ADVANCED BAKING AND PASTRIES 40S

The emphasis of these courses is on the preparation of French Desserts and Pastries, Modern and Classic desserts including plating techniques. Also, advanced techniques on Artisan Bread Products, Chocolate and Sugar Decoration, Frozen Desserts and elegant Cakes are discussed. Teamwork, time management, and strong work ethic skills are practiced and evaluated to prepare students to enter the workforce.



Do you have a passion for creating sensational desserts, pastries, and baked goods? If so, this program is for you! This course is designed for students that have an interest in the Baking or Pastry Arts Profession. Here is the chance to learn the tricks of the trade to create your own delectable masterpieces. These courses are designed to prepare students to enter the work force with a general understanding and knowledge of ingredients, products and techniques. Balancing theory and hands-on practice in the Baking Lab, this program gives students the understanding, fundamental skills, and attitudes needed to progress and develop in a successful baking career. Students prepare desserts, pastries and other baked goods for the lunch cafeteria and dining room service. Students have the prospect to further their skills at Red River College in their one-year Baking and Patisserie Program after high school. The opportunities available in this trade area are unlimited as there are many ways students can improve their skills, including on the job training and through specialty classes and courses. Students interested must possess a good attitude, work ethic, and time management skills. Teamwork, participation and attendance are mandatory.

### TRADE AREAS

- BAKER
- BAKERY MANAGEMENT
- CAKE DECORATOR
- CATERER
- CHEF INSTRUCTOR
- FOOD TRUCK OWNER
- PASTRY CHEF
- PERSONAL CHEF

### SERVICE AREAS

- BAKERS HELPER
- CUSTOMER SERVICE
- PASTRY CHEFS HELPER

### POST-SECONDARY/ COLLEGE OPTIONS

- APPRENTICESHIP (ALBERTA, ONTARIO)
- BAKING
- CULINARY ARTS
- HOSPITALITY & TOURISM
- HOTEL & RESTAURANT MANAGEMENT

### RELATED CAREER OPTIONS

- FOOD BROKER
- FOOD PHOTOGRAPHER
- FOOD SCIENCE
- FOOD STYLIST
- HEALTH INSPECTOR
- NUTRITIONIST/  
DIETITIAN
- PROFESSIONAL FOOD  
WRITER/BLOGGER

### STUDENTS NEED TO SUPPLY

- Close-toed, non-slip shoes
- Dark pants

### STUDENTS MUST ADHERE TO:

A professional and sanitary dress code during lab time. Long pants and closed toed/non-slip shoes are mandatory for student safety. All jewellery (watches, bracelets, rings) on the hands/wrist must be removed. Professional chef hats and hairnets are supplied and are to be worn at all times in the lab. **Gel nails/press-on nails and nail polish are not permitted** as per the Manitoba Food Safety guidelines. We strive to create a professional, safe, and sanitary learning space for all.

### COURSE FEES:

There is a uniform fee of \$35.00 per year for students in gr. 11 and 12. Alternatively, students may purchase their own jacket to wear throughout the course of the program which will be laundered daily at the school. (approximate student jacket cost is \$70.00)

# CARPENTRY - KEC & MMC



If you enjoy working with your hands, have good eye-hand coordination, good basic math skills and some creativity, you may wish to consider Carpentry. Carpentry deals with the construction of buildings, furniture and cabinetry using wood products as the primary construction material. The carpentry course covers the proper use and safe operations of tools and equipment used in the industry. **Students can apply for this course at either Kildonan-East Collegiate or Murdoch MacKay Collegiate.**

## COMPLEMENTARY COURSES

To further the benefits of the Carpentry Program, consider taking: Applied Math and Physics.

### THIS PROGRAM INCLUDES

- ADVANCED MACHINE OPERATIONS
- BASIC SURVEYING
- BLUEPRINT READING
- CABINET MAKING
- CONCRETE AND WOOD FOUNDATIONS
- FLOOR AND WALL FRAMING
- INTERIOR AND EXTERIOR FINISHING
- ROOF FRAMING
- SHOP SAFETY
- STAIR CONSTRUCTION
- WHMIS

### CAREER OPPORTUNITIES

- ARCHITECTURAL DRAFTING
- BUILDING MATERIALS SALES
- CABINET & FURNITURE PRODUCTION
- CIVIL ENGINEERING
- COMMERCIAL CONSTRUCTION
- DRY WALLER
- EXTERIOR FINISHES
- FINISH CARPENTRY
- MANUFACTURING
- RESIDENTIAL CONSTRUCTION
- WINDOWS/DOORS
- PROJECT SUPERVISION/ MANAGEMENT

### STUDENTS NEED TO SUPPLY

- Imperial tape measure
- Pencils
- Binder or notebook
- Safety shoes or boots required
- The first set of CSA approved safety glasses are supplied. Students are responsible for a new pair if these are lost, stolen, or damaged. Tinted safety glasses are not allowed.

### APPRENTICESHIP PROGRAM OPTION

This program is accredited for the level 1 technical in-school portion of the carpentry trade apprenticeship. Students who maintain an average of 70% or higher at the end of the eight courses and have earned the required hours will be eligible for Level 1 apprenticeship status.

## GRADE 11 • 4 CREDITS

CP20SCF CARPENTRY FUNDAMENTALS

CP30SF FRAMING

CP40SSC SURVEYING AND CONCRETE

CP40SCM CARPENTRY MILLWORK 40S

Students will study the practices, principles, and building code standards related to the construction of the superstructure of a building. This sequence of courses explores topics from surveying property to constructing the roof of a building, using tools and equipment, understanding efficient building design, and cabinet making. Students will work under conditions similar to those on a construction site.

## GRADE 12 • 4 CREDITS

CP30SCTE CARPENTRY TOOLS AND EQUIPMENT

CP30SIEF INTERIOR AND EXTERIOR FINISHING 30S

CP40SAF ADVANCED CARPENTRY 40S

CP40SAC APPLIED CARPENTRY 40S

The final semester of Carpentry focuses on finishing and fine woodworking skills. Students will learn advanced machine operations, an in-depth overview of roof construction, basic stair building, interior finishing (including drywalling and trim work), and how to support their construction decisions with the National Building Code. Additionally, students will learn and explore trade entry topics, including trade safety awareness, apprenticeship, and post-secondary opportunities in the construction trades.

# COLLISION REPAIR & REFINISHING TECHNOLOGY - KEC

## GRADE 11 • 4 CREDITS

CR20SICR INTRO TO COLLISION REPAIR AND REFINISHING 20S

CR30SFCR FUNDAMENTALS OF COLLISION AND REFINISHING 30S

CR30SAMW AUTOMOTIVE METALS & WELDING

CR30SCP CORROSION PROTECTION 30S

Students will focus on auto body repair and refinishing techniques. They will be taught panel replacement, hydraulics usage, panel alignments and the fundamental skills required in the auto body trade. Students will also have the opportunity to learn modern spray techniques and application of refinishing materials.

## GRADE 12 • 4 CREDITS

CR40SDASR DAMAGE ANALYSIS & STRUCTURAL REPAIR 40S

CR40SCT COLOUR THEORY & CAREER PREPARATION 40S

CR40SWBPR WELD-ON BOLT-ON PANEL REFINISHING 40S

CR40SSPR SURFACE PREPARATION AND REFINISHING 40S

During the third year of the program, you will learn the fundamentals of chassis and frame repair, collision analysis and repair estimating. Advanced re- finishing techniques in the areas of partial and spot repairs are also covered.

Students will focus on colour matching and mixing of water-based paints.



Auto body is a technical program that covers the metal repairs and painting procedures on automotive vehicles. You will have the opportunity to develop skills which will readily enhance your abilities to make auto body repairs to vehicles and to seek employment in auto body, welding related fields, estimating, parts management and the automotive industry. Completion of the eight program courses, with a 70% average, accredits students with their Level 1 in-school portion of their Motor Vehicle Body Repair trade apprenticeship. They are also credited with 900 hours towards the required 1800 hours of Level 1.

### THIS PROGRAM INCLUDES

- BASIC PREPARATION
- COLLISION REPAIRS
- COLOUR MATCHING
- CUSTOM PAINTING
- ESTIMATING
- OXY-ACETYLENE WELDING
- PAINT APPLICATION
- PAINT PREPARATION
- SHEET METAL REPAIR
- 3-DIMENSIONAL MEASURING
- SHOP MANAGEMENT
- SHOP SAFETY
- STRUCTURAL ALIGNMENT
- WHMIS TRAINING
- RESISTANCE WELDING
- MIG WELDING STEEL / ALUMINUM

### CAREER OPPORTUNITIES

- AFTER MARKET SALES AUTOBODY WORK
- AUTOMOTIVE FIELD TECHNICIAN
- AUTOMOTIVE RECYCLE INDUSTRY
- BUS MANUFACTURING
- DETAILING
- ESTIMATING
- GRAPHICS STRIPE
- PAINT TECHNICAL REP
- PARTS MANAGEMENT
- WELDING INDUSTRY

### STUDENTS NEED TO SUPPLY

- CSA approved steel toe boots or shoes. \*Mandatory for grades 11 and 12.
- CSA approved clear safety glasses. Tinted Safety glasses are not allowed.

\*Mandatory for all grades.

### APPRENTICESHIP PROGRAM OPTION

This program is accredited for the Level 1 technical in-school portion of the Motor Vehicle Body Repair trade apprenticeship.

# CULINARY ARTS - KEC



Culinary Arts is one of the fastest growing industries in Canada and for this reason there is a tremendous shortage of well-trained entry-level cooks. The Culinary Arts Program is designed to prepare students to enter the labour force. Students spend a portion of their day on theory and the balance of the day in the kitchen. Food will be prepared daily for cafeteria service by the students in the program. Selections will include hot entrées, soups, sandwiches, salads, snacks, beverages and desserts.

## CAREER OPPORTUNITIES

This program may lead to work in cafeterias, hotels, restaurants, hospitals, catering companies, supermarkets, bakeries, or post-secondary education. Students who choose to major in culinary arts will be eligible for the apprenticeship program.

| SALES  | SERVICE AREA OPPORTUNITIES   | POST SECONDARY/ COLLEGE PROGRAMS  | TRADE   |
|--|--|---|---|
| <ul style="list-style-type: none"> <li>• BANQUET MANAGER</li> <li>• CATERING</li> <li>• PURCHASING AGENT</li> <li>• SALESPERSON</li> <li>• STOREROM MANAGER</li> </ul> | <ul style="list-style-type: none"> <li>• BAKERS HELPER</li> <li>• COOKS HELPER</li> <li>• GENERAL KITCHEN HELP</li> <li>• SHORT ORDER COOK</li> <li>• WAITER/WAITRESS</li> </ul> | <ul style="list-style-type: none"> <li>• APPRENTICESHIP</li> <li>• APPRENTICESHIP MILITARY</li> <li>• BAKING</li> <li>• CULINARY ARTS</li> <li>• HOTEL &amp; RESTAURANT MANAGEMENT</li> </ul> | <ul style="list-style-type: none"> <li>• BAKER</li> <li>• CHEF</li> <li>• COOK</li> </ul> |

## APPRENTICESHIP PROGRAM OPTION

The Culinary Arts program at Kildonan-East Collegiate is a fully accredited program with the province of Manitoba. The courses have been approved for accreditation of level 1 apprenticeship towards an interprovincial journeyman's red seal. The course is equivalent to the first year of the two-year apprenticeship program at Red River College. Students at Kildonan-East Collegiate who complete the apprenticeship program by achieving 70% on their test scores will be given credit for their first level of the red seal program at a college.

## STUDENTS MUST AHDERE TO:

A professional and sanitary dress code during lab time. **Long pants and closed toed/non-slip shoes are mandatory for student safety.** All jewellery (watches, bracelets, rings) on the hands/wrist must be removed. Professional chef hats and hairnets are supplied and are to be worn at all times in the lab. **Gel nails/press-on nails and nail polish are not permitted** as per the Manitoba Food Safety guidelines. We strive to create a professional, safe, and sanitary learning space for all.

## COURSE FEES

There is a uniform fee of \$35.00 per year. Alternatively, students may purchase their own uniform which will be laundered daily at the school.

## GRADE 11 • 4 CREDITS

CA20SCP COOKING PRINCIPLES 20S

CA30SGM GARDE MANGER 30S

CA30SPB PATISSERIE AND BAKING 30S

CA30SVFSF VEG, FUNGI, STARCHES & FARINACEOUS PRODUCT 30S

Students will receive both theory and kitchen experience throughout their school day. A wide range of topics will be covered including sanitation, knife skills, tools and equipment, salads, sandwiches, patisserie and baking, vegetable cookery, grains, and cooking methods.

## GRADE 12 • 4 CREDITS

CA40SSS STOCKS, SOUPS AND SAUCES 40S

CA40SBD BREAKFAST AND DAIRY 40S

CA40SMPFC MENU PLANNING & FOOD COSTING 40S

CA40SMPFS MEATS, POULTRY, FISH & SEAFOOD 40S

Students will spend one period per day in theory and three periods in the kitchen applying this theory to prepare food for service. Topics will include stocks, mother sauces, soups, breakfast cookery, poultry, seafood, techniques for cooking meats, menu planning, and food costing.

# ELECTRICAL TRADES TECHNOLOGY - KEC

*COURSE CREDITS ARE USED FOR LEVEL 1 APPRENTICESHIP ACCREDITATION*

## GRADE 11 • 4 CREDITS

**ETT20SI INTRODUCTION TO ELECTRICAL TRADES TECH 20S**

**ETT30SETF ELECTRICAL TRADES DC FUNDAMENTALS 30S**

**ETT30SRW RESIDENTIAL WIRING 30S**

**ETT30SEWM ELECTRICAL WIRING METHODS 30S**

Students will be introduced to basic electrical concepts.

They will begin to design and wire circuits. Students are

introduced to safety, tools, equipment and

electrical/electronic systems. Areas of safety include

instrumentation, measurement, component recognition, value determination and fabrication.

Students will learn Ohm's Law as it relates to series, parallel

and combination circuits. Students will also be introduced

to Canadian Electrical Code (CEC) standards. They will learn

to design, install, test and troubleshoot branch circuits, and

become familiar with the tools, techniques, materials and devices associated with it.

Students will also be introduced to blueprint reading.

## GRADE 12 • 4 CREDITS

**ETT40SETF ELECTRICAL TRADES AC FUNDAMENTALS 40S**

**ETT40SARW ADVANCED RESIDENTIAL WIRING 40S**

**ETT40SAETT APPLIED ELECTRICAL TRADES TECHNOLOGY 40S**

**ETT40SAEWM ADVANCED ELECTRICAL WIRING METHODS**

In the Grade 12 Electrical Program you will learn advanced

residential, advanced electrical wiring methods, intro to

electric motor control and programmable logic control.



Electricity lights up our cities, factories, homes and provides power to all our modern appliances and entertainment equipment. It is also becoming a means of modern transportation in all-electric vehicles. If you have the desire to enter into a career with ever increasing opportunities, then the Electrical Program could be for you. In the Electrical Program you will learn how to install, maintain and repair many different forms of electrical wiring and equipment. Completion of the eight program courses, with a 70% average, accredits students with their Level 1 in-school portion of their electrical trade apprenticeship. They're also credited with 900 hours towards the required 1800 hours of Level 1.

## COMPLEMENTARY COURSES

If your career goal includes college or university; then the following academic subjects are strongly recommended: Math (Applied or Pre-Calculus), Physics and Computer Science. If your career goal is Apprenticeship, you should consider Applied or Pre-Calculus Math, and Physics 30s and/or 40s.

## THIS PROGRAM INCLUDES

- BASIC ELECTRICAL
- COMMUNICATIONS WIRING
- ELECTRICAL THEORY
- INTRO TO A/C, ELECTRIC MOTORS & GENERATORS
- INTRO TO MOTOR CONTROL
- MULTI-METERS AND TEST EQUIPMENT
- POWER DISTRIBUTION SYSTEMS
- REPAIRING ELECTRICAL APPLIANCES
- RESIDENTIAL, COMMERCIAL & INDUSTRIAL WIRING METHODS
- SHOP SAFETY
- SOLDERING AND WORKING ON PRINTED CIRCUIT BOARDS

## CAREER OPPORTUNITIES

- CONSTRUCTION ELECTRICIAN
- ELECTRICAL ENGINEER
- ELECTRICAL ESTIMATOR
- ELECTRICAL INSPECTOR
- ELECTRICAL INSTRUCTOR
- ELECTRICAL PLANNER
- ENTREPRENEUR
- INDUSTRIAL ELECTRICIAN
- POWER ELECTRICIAN
- POWER LINE TECHNICIAN
- PROJECT MANAGEMENT

## STUDENTS NEED TO SUPPLY

- The first set of CSA approved safety glasses are supplied. Students are responsible for a new pair if these are lost, stolen, or damaged. Tinted safety glasses are not allowed.
- A scientific calculator.
- Coloured pencils or markers for colour coding electrical drawings.

## APPRENTICESHIP PROGRAM OPTION

This program is accredited for the level 1 technical in-school portion of the electrical trade apprenticeship.



# FASHION TECHNOLOGY - MMC



This is a one-of-a-kind program for students interested in the world of fashion. The program takes place at **Murdoch MacKay Collegiate** where students learn both the theoretical and practical sides of industrial sewing techniques, fashion illustration, pattern making and garment construction. Fashion is ideal for creative students, or anyone interested in developing their creativity through a practical, hands-on approach. This program builds skills related to competence of industry standards, commitment, communication, and problem solving.

## THIS PROGRAM INCLUDES

- ADVANCED SEWING SKILLS
- BASIC SERING SKILLS
- CLOTHING LINE PRODUCTION
- CUSTOM FITTING
- CUSTOM FLAT PATTERN DRAFTING
- CUSTOM GARMENT DESIGN & CONSTRUCTION
- DESIGN & COLOUR THEORY
- FASHION DRAWING
- FASHION HISTORY
- PATTERN MANIPULATIONS & ALTERATIONS
- PLANNING & PARTICIPATION IN PHOTOSHOOTS & YEAR-END FASHION SHOW
- SUSTAINABILITY & ETHICS IN THE FASHION INDUSTRY
- TEXTILE

## CAREER OPPORTUNITIES

- COSTUME DESIGNER FOR FILM/TELEVISION
- FASHION BUYER
- INDEPENDENT DESIGNER
- PATTERN DRAFTER
- RETAIL STORE MANAGER
- VISUAL MERCHANDISER
- TEXTILES SPECIALIST

## STUDENTS NEED TO SUPPLY

- Basic Drafting/Art Supplies: mechanical pencils, erasers, paper scissors, pencil crayons and coloured markers.
- Basic Sewing Supplies: fabric shears, pins, stitch rippers, and garment bags
- Sewing Machinery and Fabric/Notions are Supplied for most Garment Construction

## GRADE 11 • 4 CREDITS

- INTRO TO FASHION DESIGN & TECHNOLOGY 20S
- PAINT DESIGN AND CONSTRUCTION 30S
- SEMI-FORMAL WEAR DESIGN & CONSTRUCTION 30S
- APPLIED TEXTILE DESIGN 40S

Students will learn and practice basic sewing techniques, safely performed on a variety of industrial sewing machinery. Students will be introduced to the basics of pattern making, studying fitting/design features, closure types, and pocket styles ideal for woven fabrics. Classes allow students to apply skills from both sewing and pattern making towards the design and construction of multiple garments, inclusive of: skirts, pants, blouses, and simple dresses.

## GRADE 12 • 4 CREDITS

- KNITWEAR DESIGN & CONSTRUCTION 30S
- TAILORED GARMENT DESIGN & CONSTRUCTION 40S
- FORMAL WEAR DESIGN & CONSTRUCTION 40S
- APPLIED FASHION ENTREPRENEURSHIP 40S

Students will have the opportunity to explore working with new fabrics and their unique qualities, inclusive of knits and formal fabrics. Students will learn advanced sewing techniques taught on domestic sewing machinery. More advanced pattern making skills will be developed in addition to learning to make custom patterns based on personal measurements. Students will complete an individual clothing line, inclusive of: knitwear, a tailored jacket, and formal gown, all displayed in a year-end fashion show.

# GRAPHIC DESIGN - KEC



Combine creativity with technology. Graphic Design is the art of arranging image and text to communicate a message. It may be applied in any media such as print, digital media, motion picture, television, and animation. Examples of graphic design include advertising, books, magazines, t-shirt graphics, logos, signs, packaging, posters, websites, television graphics, social media, and much more. This program uses a hands-on approach to teach the principles required to solve graphic design problems. Using industry-standard software and related programs, students develop the ability and confidence to create successful designs. The Graphic Design program has two main objectives: First, to provide students with theoretical concepts and practical skills utilized in the graphics industry. The second, to prepare students for a possible career in the communications industry.

## THIS PROGRAM

- ACROBAT
- ANIMATION
- CINEMA 4D
- CRITIQUES
- DESKTOP PUBLISHING
- DIGITAL IMAGE CREATION
- DRAWING
- FLASH
- FIELD TRIPS
- GUEST SPEAKERS
- ILLUSTRATOR
- INDESIGN
- INTERACTIVE MEDIA DESIGN
- LOGOS AND BRANDING
- MOTION GRAPHICS
- PACKAGING DESIGN
- PHOTOSHOP
- PORTFOLIO
- PRESENTATION DESIGN
- PRINCIPLES OF DESIGN
- PRINT DESIGN
- PRINT MAKING
- SIGNAGE
- TYPOGRAPHY
- WEB DESIGN
- WORK PRACTICUM

## CAREER OPPORTUNITIES

- ADVERTISING AGENCIES
- ART DIRECTOR
- CORPORATE COMMUNICATIONS DEPARTMENTS
- CYBER GRAPHIC DESIGNER
- DESIGNERS
- DESIGN STUDIOS
- DIGITAL PRODUCTION STUDIOS
- DIGITAL SERVICE BUREAUS
- ENTREPRENEUR
- FREELANCE DESIGNER
- ILLUSTRATOR
- INDUSTRIAL DESIGN
- MARKETING
- NEWSPAPERS AND MAGAZINES
- PACKAGING COMPANIES
- PRE AND POST PRESS
- PRINTING COMPANIES
- PRODUCTION ARTIST
- PRODUCTION COORDINATOR
- PUBLISHING HOUSE
- SIGN COMPANIES

## GRADE 11 • 4 CREDITS

- GD20SFGD FUNDAMENTALS OF GRAPHIC DESIGN 20S
- GD30SGDL GRAPHIC DESIGN AND LAYOUT 30S
- GD30SIGD ILLUSTRATION FOR GRAPHIC DESIGN 30S
- GD30SIGRD INTERACTIVE GRAPHIC DESIGN 30S

These courses consist of theoretical and practical presentations, lectures, demonstrations, assignments, sketchbook work, critiques, guest speakers, field trips and work experience to advance student skill and comprehension of Graphic Design. Through these experiences, students will continue to develop artistic and problem-solving skills. Students will also expand their technology skills through tutorials and practical assignments. These assignments will include design utilizing a variety of media including print, motion, and interactive media.

## GRADE 12 • 4 CREDITS

- GD40SAIGD ADVANCED ILLUSTRATION FOR GRAPHIC DESIGN 40S
- GD40SAIGRD ADVANCED INTERACTIVE FOR GRAPHIC DESIGN 40S
- GD40SAGDL ADVANCED GRAPHIC DESIGN AND LAYOUT 40S
- GD40SGDP GRAPHIC DESIGN PORTFOLIO 40S

The final year of the Graphics Design program continues to enhance students' creative and technical abilities. Objectives include developing a professional attitude towards craftsmanship and the industry, increasing appreciation of design through awareness and understanding of its diverse manifestations, and strengthening students' technical abilities through work on real world projects. Students will be able to effectively problem solve, apply appropriate techniques, and discuss technical and aesthetic issues.

# HAIRSTYLING - KEC

## GRADE 10 • 4 CREDITS

HS20SI INTRODUCTION TO HAIRSTYLING 20S

HS20SBH BASIC HAIRSTYLING 20S

HS20SBHC BASIC HAIR CUTTING & THERMAL STYLING 20S

HS20SRSS RELATED SALON SERVICES 20S

Intro to Hairstyling is a hands-on program designed to explore basic hairstyling skills. Students are introduced to braiding, up-styles, roller setting, styling and blow-drying the hair. Students will also learn haircutting, haircolouring, chemical texture services, manicuring and facials.

## GRADE 11 • 4 CREDITS

HS30SIH INTERMEDIATE HAIR CUTTING & BARBER

TECHNIQUES 30S

HS30SHCO HAIR COLOURING 30S

HS30SIHA INTERMEDIATE HAIRSTYLING & ARTIFICIAL HAIRSTYLING 30S

HS30SCTS CHEMICAL TEXTURE SERVICES 30S

The 2nd year of Hairstyling is dedicated to reviewing basic hairstyling, haircutting, chemical texture services and hair colouring, transferring the skills from mannequins to clients from the community.

## GRADE 12 • 4 CREDITS

HS40SAHC ADVANCED HAIRSTYLING AND COLOURING 40S

HS40SAHCC ADVANCED HAIRCUTTING & CHEMICAL TEXTURE SERVICES 40S

HS40SSO SALON OPERATION 40S

HS40SCP CERTIFICATE PREPARATION 40S

The 3rd year of Hairstyling is devoted to fine-tuning skills. Students are exposed to advanced course work in men's and women's haircutting, hairstyling and hair colouring techniques. Additionally, students prepare for their provincial hairstyling exam.



If you are interested in the art and science of beauty, then a career in Hairstyling may be for you. During the three-year Hairstyling program, you will develop the necessary skills to enter a career that may branch into many different and challenging opportunities. **Students will apply for this program in their grade 9 year.**

### THIS PROGRAM INCLUDES

- BASIC SKINCARE
- CHEMICAL TEXTURE SERVICES
- HAIRCOLOURING AND LIGHTENING
- LONG HAIR UP STYLES
- MANICURING
- MEN AND WOMEN HAIR CUTTING
- RECEPTION DUTIES
- RETAILING EXPERIENCE
- STYLING HAIR

### CAREER OPPORTUNITIES

- EDUCATOR
- EDUCATOR FOR HAIR CARE PRODUCTS/TECHNIQUES
- FIELD TECHNICIAN (FILM WORK)
- HAIR COLOURIST
- LICENSED HAIRSTYLIST
- MANUFACTURE SALES REPRESENTATIVE
- PLATFORM ARTIST
- RETAILING COSMETICS
- SALES REPRESENTATIVE
- SALON OWNER
- SALON RECEPTIONIST

### APPRENTICESHIP PROGRAM OPTION

With the completion of 1400 hours of technical training, grade 12 students that have maintained a 70% average or better in both practical and theory course work are able to challenge their provincial practical exam and enroll in the Inter-provincial Apprenticeship Program.

Once employed as a Hairstylist Apprentice under the supervision of a Journey Person, the apprentice must complete 1600 hours. These hours are usually completed within a 1-year calendar period. At this time, apprentices may challenge the inter-provincial Red Seal theory exam. After successfully achieving 70% or better, the apprentice will receive an inter-provincial Red Seal hairstyling license that enables them to work as a licensed Journey Person Hairstylist in other provinces across Canada.

### STUDENTS WILL REQUIRE:

- Grade 10: Comb & Brush Kit - \$50.00
- Grade 11: Haircutting Scissors - \$65.00
- Grade 12: Razor/Texturing shears - \$50.00

Kits can be upgraded throughout the program for an additional cost if needed.

# INTERACTIVE DIGITAL MEDIA - KEC



If you are a gamer, a storyteller, a coder, an animation addict - Interactive Digital Media is the cutting edge of communication and entertainment. Digital Media includes games, websites, virtual reality/augmented reality, app development, video, animation and more. Interactive Digital Media is how we learn about, communicate and interact with a connected global society. This program includes aspects of language arts, mathematics, physics, art, music, engineering, computer science and psychology. Students develop technical skills, but also learn the art of engaging an audience - the process of making something beautiful, meaningful, and fun. In this program, we will make games, animations, websites, apps, VR and AR experiences. We will build skills in graphics and code and begin a pathway to 21st century careers.

## THIS PROGRAM INCLUDES

- 2D & 3D GAME GRAPHICS
- AFTER EFFECTS
- ANIMATION FOR GAMES AND FILM
- ART
- CHARACTER DESIGN
- CINEMA 4D
- CODING FOR MOBILE GAMES, THE WEB, VIDEO GAMES & VR/AR EXPERIENCES
- DATABASES
- DREAMWEAVER
- FIELD TRIPS
- GAME DESIGN
- IDEA DEVELOPMENT
- ILLUSTRATOR
- INDUSTRY CONNECTIONS
- JAVASCRIPT
- ONLINE FORMS
- PHOTOSHOP
- PROJECT PLANNING
- RESPONSIVE DESIGN
- STORYBOARDING
- TEAMWORK
- TITLING AND MOTION GRAPHICS
- UNITY GAME ENGINE
- VIDEO EDITING & PRODUCTION
- WEB GRAPHICS

## CAREER OPPORTUNITES

- 2D ARTIST
- 3D MODELLER
- ADVERTISING AGENCIES
- ANIMATOR
- APP DEVELOPER
- ARCHITECTURE
- CONCEPT ARTIST
- EXHIBIT DESIGNER
- FREELANCE ARTIST
- GAME DESIGNER
- GOVERNMENT DEPARTMENTS
- INDUSTRIAL DESIGNER
- INTERFACE DESIGNER/DEVELOPER
- MOTION GRAPHICS ARTIST
- ONLINE NEWS MEDIA
- PRODUCER
- PROGRAMMER
- PUBLIC RELATIONS & COMMUNITY
- GAME STUDIOS
- TEXTURE ARTIST
- VFX ARTIST/PROGRAMMER
- VIDEO EDITOR
- VR/AR DEVELOPER
- WEBSITE DESIGNER/DEVELOPER

## GRADE 11 • 4 CREDITS

- DM20SIDM INTRODUCTION TO INTERACTIVE DIGITAL MEDIA 20S
- DM30SIDMD INTERACTIVE DIGITAL MEDIA DESIGN 30S
- DM30SIDMAC INTERACTIVE DIGITAL MEDIA ASSET CREATION 30S
- DM30SCIDM CODING FOR INTERACTIVE DIGITAL MEDIA DESIGN 30S

Interactive Digital Media Design is about turning ideas into reality. IDM Design introduces project management, art and interactive design theory and utilizes a "learn by doing", collaborative approach.

Asset Creation for IDM focuses primarily on the artistic processes for creating 2D and 3D art assets. Students will design and create 2D and 3D characters and environmental art and learn the technical requirements for producing assets for a variety of projects.

In Coding for IDM, students gain theoretical knowledge, and practice in the development of code for interactive media projects. Students will explore topics such as Player controls, scoring, creating game play, user inter-faces, and coding for websites.

## GRADE 12 • 4 CREDITS

- DM40SFDm FUTURES IN INTERACTIVE DIGITAL MEDIA 40S
- DM40SAAC ADVANCED INTERACTIVE DIGITAL MEDIA ASSET CREATION 40S
- DM40SAC ADVANCED CODING FOR INTERACTIVE DIGITAL MEDIA 40S
- DM40SPM PROJECT MANAGEMENT FOR INTERACTIVE DIGITAL MEDIA 40S

Futures in IDM will develop an online portfolio and make connections with industry to prepare pathways to employment in the IDM industry.

Advanced IDM Asset Creation is focused on developing individual creativity in many forms, from 2D graphics to 3D models, animation, videos music and sound.

Advanced Coding for IDM will experience the development of coding on many platforms and create solutions for a variety of interactive projects.

Project management for IDM focuses on the collaborative design process and workflow "pipelines" that organize complex projects from idea generation to a finished project.

# PHOTOGRAPHY - KEC

## GRADE 11 • 4 CREDITS

PH20SPE INTRODUCTION TO PHOTOGRAPHY 20S

PH30SPE PHOTOGRAPHIC EQUIPMENT 30S

PH30SPL PHOTOGRAPHIC LIGHTING 30S

PH30SDD DIGITAL DARKROOM 30S

Students will focus on the safe and appropriate use of professional photographic equipment, such as the functions of DSLR cameras, different types of lenses, and tripods. They will also learn all aspects of lighting, including lighting theory, techniques, and styles as well as basic digital editing techniques, including layout, resolution, tonal and colour correction, crop ratios, and output. At the end they will be able to use critical thinking skills to select and utilize the most appropriate equipment to complete photographic assignments. Introduction to Photography is highly recommended before taking any grade 11 photography courses.

## GRADE 12 • 4 CREDITS

PH40SAPE ADVANCED PHOTOGRAPHIC EQUIPMENT 40S

PH40SAPL ADVANCED PHOTOGRAPHIC LIGHTING 40S

PH40SADD ADVANCED DIGITAL DARKROOM 40S

PH40SAPH APPLIED PHOTOGRAPHY 40S

Students will focus on the advanced use of professional photographic lighting and advanced digital editing techniques. Students will use critical thinking skills to manipulate various forms of lighting to complete photographic assignments as well as select the most appropriate software and tools to professionally edit images to achieve desired results. The study of portraiture, commercial, architectural, drone photography as well as digital workflow is a major part of the program.



The art and science of creating a lasting image. Photographic skills are developed through a variety of projects. When participating in the Photography program, you will build on your photography skills and learn by using state-of-the-art photography equipment. Students are responsible for completing their projects from start to finish, including everything from the set-up to the final print. Digital imaging is a major part of the photography program. Students learn various photographic techniques with digital cameras and image manipulation using advanced editing software programs Adobe Photoshop and Lightroom. Such tasks will include re-sizing, color correction, image manipulation, editing using Camera RAW, as well as preparing images for printing and social media applications. Photography students play a major role in producing images for all aspects of our school and will gain experience working with real clients. Photography is a skill that can be applied to enhance the possibility of future employment. Upon graduation you will be equipped with the knowledge, skills, and attitudes required to find entry-level employment in the industry. You will leave with an impressive portfolio containing readily available work samples to show prospective employers as well as learning a lifelong technical skilled trade.

### THIS PROGRAM INCLUDES

- ADVANCED EDITING
- B & W PRINTING
- CAMERA TECHNIQUES
- COMPOSITION
- DIGITAL IMAGING
- DIGITAL VIDEO AND NON-LINEAR EDITING
- DRONE AIRCRAFT TECHNOLOGY
- FILM PROCESSING
- LIGHTING
- PICTURE RETOUCHING
- PORTFOLIO
- PORTRAITURE
- SCANNING
- YEARBOOK PHOTOGRAPHY

### CAREER OPPORTUNITIES

- AERIAL PHOTOGRAPHY
- COMMERCIAL ADVERTISING STUDIOS
- COMMUNICATIONS
- CUSTOM PHOTO LABS
- FASHION
- FINE ARTS
- FREELANCE PHOTOGRAPHER
- JOURNALISM
- MEDICAL PHOTOGRAPHY
- PORTRAIT STUDIOS
- PROCESSING LABS
- PUBLIC RELATIONS
- RETAIL SALES
- SCIENTIFIC AND RESEARCH INSTITUTES

# REFRIGERATION & AIR CONDITIONING - KEC



Are you looking for a rewarding and challenging career choice with lots of earning potential? Do you enjoy working with your hands? Then the Refrigeration and Air Conditioning Program is for you. You will learn how to install, repair, and service various types of heating, cooling and ventilation equipment used in our homes. This industry is focused towards providing us with a clean and comfortable indoor environment regardless of the outdoor weather conditions. Upon successful completion of the course, graduates have the option of directly entering the work force or pursuing their studies at a post-secondary institution.

## COMPLEMENTARY COURSES

To fully benefit from the Refrigeration and Air Conditioning program, you may wish to consider taking: Electrical Exploratory and/or Carpentry Exploratory.

## THIS PROGRAM INCLUDES

- CONTROL CIRCUITRY
- COPPER TUBING
- CURRENT ELECTRONIC AND DIGITAL TEST EQUIPMENT RELATED TO THE INDUSTRY
- EVACUATION EQUIPMENT
- GAS PIPING
- HVAC EQUIPMENT
- LAYOUT AND BLUEPRINT READING
- REFRIGERANT RECOVERY
- SERVICE AND REPAIR
- SHEET METAL
- SHOP SAFETY
- TROUBLE SHOOTING SKILLS
- WHMIS
- WORK EXPERIENCE

## CAREER OPPORTUNITIES

- BUILDING OPERATION AND MAINTENANCE
- CONTRACTING SECTORS
- ENGINEERING
- MANUFACTURING SECTORS
- MARKETING SECTORS
- POWER ENGINEERING
- TECHNOLOGY AND TECHNICIAN OPTIONS
- UTILITIES
- WHOLESALE

## STUDENTS NEED TO SUPPLY

- CSA approved boots or shoes. These are required for grades 11 and 12.

## GRADE 11 • 4 CREDITS

**RA20SR INTRODUCTION TO REFRIGERATION AND AIR CONDITIONING 20S**

**RA30SSF SYSTEMS FUNDAMENTALS 30S**

**RA30SPF PIPING FUNDAMENTALS 30S**

**RA30SEF ELECTRICAL FUNDAMENTALS 30S**

Learning will begin in the classroom where you will develop problem-solving skills, working independently and in small groups through various activities related to the trade. Students will be given an understanding of how different mechanical systems work in conjunction with each other to provide us with a constant clean and comfortable indoor environment regardless of outdoor weather conditions.

## GRADE 12 • 4 CREDITS

**RA40SEC ELECTRICAL CONTROLS 40S**

**RA40SRAC REFRIGERATION & AIR-COOLING SYSTEMS 40S**

**RA40SHVA HEATING VENTILATION AIR CONDITIONING SYSTEM 40S**

**RA40SARA APPLIED REFRIGERATION AIR CONDITIONING 40S**

Your last year of study will be based on practical applications through building working models of HVAC systems. When good initiative is shown, you could be placed into a variety of different job placements to gain valuable work experience. As more demands are placed on energy consumption and indoor air quality, Refrigeration and Air Conditioning has become one of the fastest growing areas of employment in our modern society.

# ACADEMIC COURSE DESCRIPTIONS

## CAREER DEVELOPMENT

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**\*Students enrolled in any grade level LIFE/WORK courses may earn up to two additional credits through the Credit for Employment Program.**

### LWE20S LIFE/WORK PLANNING 20S

CREDIT: 1

The experiential learning components of this grade 10 course will provide students with opportunities to explore potential occupations, and to demonstrate employability skills, essential skills, and specific occupational skills. The broad range of experiences may vary from community visitor presentations or volunteerism to community placements through which students have opportunities to gain knowledge and learn skills that are sometimes not available to them in their school setting. The course is divided into five themes:

- Personal and Money
- Management Career Exploration
- Learning and Planning
- Job Seeking
- Job Maintenance.

### LWB30S LIFE/WORK BUILDING 30S

CREDIT: 1 The Life/Work Building 30 course enables students to explore career options and to develop essential skills that will allow them to achieve success in the workplace. The course encourages students to self-evaluate, reflect, and develop valuable skills such as communication, time management, goal setting, and financial literacy. The course provides students with the opportunity to make informed decisions as they transition from high school into the real world, whether in post-secondary education or the work force

This course can be taken as a stand-alone credit or in conjunction with the Career Development Internship (CDI) program.

### LWT40S LIFE/WORK TRANSITION 40S

CREDIT: 1

This course, taken at grade 11 or 12, engages students in topics such as personal and professional growth, career exploration, lifelong learning, securing and maintaining employment, success and promotion in the workplace, communication and interpersonal skills, and ethics. This course also enables students to access the Credit for Employment Program. This single credit course is in-school only and does not have an internship component. For those students wishing to enter an internship and earn up to four credits, please see Career Development/Career Bridge for grade 11 and/or 12.

### CAREER DEVELOPMENT/ CAREER BRIDGE GRADE 11

#### LWB30S LIFE/WORK BUILDING 30S CDI30G CAREER DEVELOPMENT INTERNSHIP 30G

CREDIT: 2

This two-credit program will help students acquire and apply knowledge and skills to make appropriate decisions for life, work, and education. The experiential learning components will provide students with opportunities to explore potential occupations, and to demonstrate employability skills (such as job searching, resume writing, and interview preparation), and essential and specific occupational skills. Attention will be given to understanding personality and the development of strong personal and professional relationships in the workplace.

This program offers students an exciting and rewarding opportunity to explore the world of work or their chosen career to apply the skills obtained in class through an internship with a local business partner. Internships replace a half day of school for approximately three months.

Upon completion of the placement, students will return to the classroom to continue their study of employability skills and success in the workplace. Students enrolled in this program enhance their resumes and earn powerful references that may be used for future educational and employment opportunities. Students are given first choice at posted employment opportunities at Kildonan-East Collegiate and, in some cases, may be hired at their internship.

### CAREER DEVELOPMENT/ CAREER BRIDGE GRADE 12 LWT40S LIFE/WORK TRANSITION 40S CDI40G CAREER DEVELOPMENT INTERNSHIP 40G

CREDIT: 2

This program helps to prepare students for their transition to the world of work through the practical study of topics such as personal and professional growth, career exploration, lifelong learning, securing and maintaining employment, success and promotion in the workplace, communication and interpersonal skills, and ethics. Attention will also be given to financial literacy issues such as making, managing, multiplying, and protecting money. With the help of a teacher mentor, students will identify work or career interests and will then be placed in an internship with a local business partner. This placement will develop the student's knowledge, skills, confidence, and employability. This highly beneficial work placement will run for a half day (during regular school hours for a total of approximately three months.

Upon completion of the placement, students will work with their teacher mentor to ensure a successful transition to the world of work or continued training/education to achieve career goals after graduation from Kildonan-East Collegiate.

Students enrolled in this program enhance their resumes and earn powerful references that may be used for future educational and employment opportunities. Students are given first choice at posted employment opportunities at Kildonan-East Collegiate and, in some cases, may be hired at their internship.

## COMPUTER SCIENCE

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### CS20S COMPUTER SCIENCE 20S

CREDIT: 1

Understanding different dimensions of computing is part of the necessary skill set for an educated person in the 21st century. Whether you want to be a scientist, develop the latest application, or just know what it really means when someone says, "the computer made a mistake", studying computing will provide you with valuable knowledge. This course will provide an introduction to computational thinking and writing computer programs. Students will create their own computer applications to solve a variety of real-world problems and enhance their communication and problem-solving skills at the same time.

### CS30S COMPUTER SCIENCE 30S

CREDIT: 1

Top 5 Reasons to Take Computer Science:

5. Without Computer Science, not much works.
4. There will always be jobs for coders.
3. Solving problems is never boring.
2. Creating technology is lucrative.
1. Making. Really. Cool. Things.





**E20F ENGLISH LANGUAGE ARTS 20F**

CREDIT: 1

This course uses novels, plays, poems and short prose in order to develop an awareness of social issues in the past and the present societies, and the ability to think, discuss, and to write about these issues. Students will learn to both analyze and write for a variety of audiences and purposes, with a strong emphasis on developing writing skills. Evaluation consists of tests, a variety of writing assignments, creative inquiry projects, and a final assessment.

**E20F ENGLISH LANGUAGE ARTS - STORYTELLING 20F**

**E30SLF ELA: LITERARY FOCUS - STORYTELLING 30S**

**E40SLF ELA: LITERARY FOCUS - STORYTELLING 40S**

CREDIT: 1

This is a multi-grade class for students with an interest in storytelling and content creation. The course will explore stories in a variety of forms and is designed for students who have a desire to develop their personal voice. This course is project-based.

**E30SCF COMPREHENSIVE FOCUS 30S**

CREDIT: 1

A combination of the Literary and Transactional choices for Grade 11. 50% of the course will be Literary, 50% Transactional. This course is considered a natural continuation of the 20F course.

**E30SLF LITERARY FOCUS 30S**

CREDIT: 1

This course is more demanding than English 30CF (Comprehensive) or 30ST (Transactional). It is considered a natural continuation from 20FPA (PRE-AP) course and prepares students well for the grade 12 AP English course. This course uses novels, plays, poems and short prose in order to expose students to a wide range of cultural, historical, and literary works. Students will learn to relate the

purpose of a piece of writing to the style used by the writer. Evaluation consists of tests, a variety of writing assignments, and a final assessment.

**E30SLFA ENGLISH LITERARY ADVANCED 30S**

CREDIT: 1

This course exposes students to a variety of text which may include novels, plays, poems, non-fiction, and short prose in order to offer a wide range of cultural, historical and literary works to students. The analytical approach to the study of literature continues to be stressed with an added emphasis on the purpose and writing style of authors as well as the writing style of students taking the

**Students interested in taking 42AP English Literature and Composition are encouraged to register for English Literary Advanced 30S and 40S in their Grade 11 year.**

**E30ST TRANSACTIONAL FOCUS 30S**

CREDIT: 1

The course is more practical in nature than the theoretical Literary choice and deals with the reading and writing of non-fiction forms such as newspaper articles and biographies. Students taking this course will learn to process information critically and efficiently.

**E40SCF COMPREHENSIVE FOCUS 40S**

CREDIT: 1

This course is a combination 50% Literary, and 50% Transactional. It can be considered a natural progression from the 30S Comprehensive ELA course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA.

**E40SLF LITERARY FOCUS 40S**

CREDIT: 1

This course can be considered a natural continuation of 30S PA for students not wishing to

pursue the Grade 12 AP course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA. Students taking this course will deal with language of an imaginative and emotional nature. They will study the artistic shaping of the language, expressions of cultural heritage, more abstract concepts and language's influence on shaping modern life. The emphasis in this course is on fiction, both poetry and prose.

**E40SLFA ENGLISH LITERARY ADVANCED 40S**

CREDIT: 1

This course provides students the opportunity to examine and compose a variety of literary texts. Students explore properties of language to convey experience, ideas, and perspectives as they deepen their appreciation of literature. Students develop the skills required to respond to texts, to manage diverse ideas and information, to communicate effectively, and to learn about the connection between purpose and writing style.

**Students interested in taking 42AP English Literature and Composition are encouraged to register for English Literary Advanced 30S and 40S in their Grade 11 year.**

**E40STF TRANSACTIONAL FOCUS 40S**

CREDIT: 1

It can be considered a natural continuation of the 30S Transactional course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA. The course is more practical in nature than the Comprehensive or Literary choices and deals with the reading and writing of non-fiction forms such as biographies and memoirs. Students taking this course will learn to process information critically and efficiently.

**APE42SLI LITERATURE & COMPOSITION AP42S**

RECOMMENDATION: 30SLFA & 40SLFA

CREDIT: 1

AP English Literature and Composition is an introductory university-level literary analysis course. The course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

**FRENCH**

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**F10F FRENCH: COMMUNICATION & CULTURE 10F**

CREDIT: 1

This is an introductory level French course where any student can join in no matter what level they are at!

Students who are brand new to French should expect extensive extra home practice to be completed regularly. Students will focus on French language and culture while playing many oral games, reading short stories, watching classic French movies and listening to (singing!) current songs. These and other activities will greatly encourage French dialogue and enrich the cultural experience. The focus this year is being able to communicate in the present, past and future tenses in a variety of real-life situations. Bienvenue!

## **F20F FRENCH: COMMUNICATION & CULTURE 20F**

RECOMMENDED:

COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 10F OR THE EQUIVALENT

CREDIT: 1

The songs and games continue in grade 10 French! Students look at a variety of topics to improve their vocabulary, grammar and cultural awareness. Students will continue to have many opportunities to express their thoughts and opinions in the past, present and future. By means of several oral, written and group presentations, students demonstrate their growth in their language skills. Note: Students should have completed French 10F or equivalent to move

## **F30S FRENCH: COMMUNICATION & CULTURE 30S**

RECOMMENDED: COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 20F OR THE EQUIVALENT.

CREDIT: 1

Oral expression and comprehension are further developed through class conversations, prepared skits, presentations and dialogues. Students will also have an opportunity to read and write in French to a greater degree. This year the students will study the conditional present and past, as well as review the present, past and future tenses.

Additional Information: The desire is that students will speak French during all activities and lessons. They will express their thoughts and ideas in an enriched, coherent fashion.

Note: Students should have completed French 20F or equivalent to move into this course.

## **F40S FRENCH: COMMUNICATION & CULTURE 40S**

RECOMMENDED: COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 30S OR THE EQUIVALENT

CREDIT: 1

Students use their advanced language skills to discuss French literature, poetry and music and look into the lives of several

Francophone musicians, actors and artists in today's popular culture.

By means of several oral, written and group presentations, students demonstrate their growth in their language skills. The emphasis is in oral French, but there will be many opportunities for written expression as well. By the end of grade 12 French, students should be able to carry on an extensive dialogue in French in everyday situations. They are expected to speak in French during class time so that their in-class experience is enriched and meaningful. This course can be used as a university entrance and scholarship credit. There are several government sponsored opportunities that are available through the Explore program, for example, for students who wish to further their French language studies after graduation. Note: Students should have completed French 30S or equivalent to move into this course.

## **MATHEMATICS**

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### **M10F MATHEMATICS 10F**

CREDIT: 2

Grade 9 students will be working toward earning two math credits throughout the school year. The Grade 9 Transitional Mathematics (M10TF) focuses on developing positive student attitudes toward learning, improving communication skills and work habits, and increasing mathematical background and motivation. The Grade 9 Mathematics (M10F) course provides a foundation for the grade 10 to 12 mathematics, encourages engagement and problem solving, and explores a broad view of topics through the four strands: numbers, patterns and relations, shape and space, and statistics and probability.

### **M20SE ESSENTIAL MATHEMATICS 20S**

CREDIT: 1

This course is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields.

The emphasis will be on consumer applications, problem solving, decision making and spatial sense as it relates to everyday life in a technological society. The learning outcomes are divided into eight topics: Analysis of games and numbers; Personal finance; Measurement; 2-D Geometry; Trigonometry; Consumer Decisions; Transformations and Angle Construction.

### **M20SI INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS 20S**

CREDIT: 1

This course is intended for students whose post-secondary planning does include a focus on mathematics and science-related fields. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-Calculus Mathematics. Students will engage in experiments and activities that include the use of technology, problem solving, mental mathematics, and theoretical mathematics to promote the development of mathematical skills. The learning outcomes are divided into three topics: Measurement; Algebra and

### **M30SA APPLIED MATHEMATICS 30S**

RECOMMENDED: GRADE 10 INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS. CREDIT: 1

Grade 11 Applied Mathematics is intended for students considering post-secondary studies that do not require a study of calculus. It promotes the learning of problem-solving techniques as they relate to the world around us. The primary goals of this course are to have students develop critical-thinking skills through real-world situations mathematically. Technology is an integral part of both learning and assessment in Applied Mathematics.

Graphing calculators, spreadsheets, or other computer software will be used by students for mathematical explorations, modelling, and problem solving. The Grade 11 Applied Mathematics course includes the following topics: Measurement, Geometry, Logical Reasoning, Statistics, and Relations and Functions. Students are required to purchase a TI-83 Plus Graphing Calculator. (approximately \$140.00)

### **M30SE ESSENTIAL MATHEMATICS 30S**

CREDIT: 1

Grade 11 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. The course emphasizes consumer applications, problem solving, decision making, and spatial sense, while providing a foundation for the topics studied in Grade 12 Essential Mathematics. Units of study include Interest and Credit, 3-D Geometry, Statistics, Managing Money, Relations and Patterns, Trigonometry, and Design Modeling. Students are expected to work both individually and in small groups on mathematical concepts and skills encountered in everyday life in a technological society.

### **M30SP PRE-CALCULUS MATHEMATICS 30S**

RECOMMENDED: GRADE 10 INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS. CREDIT: 1

Grade 11 Pre-Calculus Mathematics is designed for students who intend to study calculus and related mathematics as part of their post-secondary education. The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics

include the study of Algebra, Quadratic Functions, Reciprocal Functions, and Trigonometry. Students should constantly be looking for opportunities to see connections between the various outcomes in Grade 11 Pre-Calculus Mathematics.

### **M30SPA PRE-CALCULUS MATHEMATICS ADVANCED 30S**

CREDIT: 1

This course builds on the concepts learned in Introduction to Applied and Pre-calculus Mathematics 20S. Topics of study include algebra, quadratic functions, absolute value, reciprocal functions, and trigonometry.

**Students interested in taking the 42AP Calculus AB should register for Pre-Calculus Mathematics Advanced 30S and 40S in their Grade 11 year.**

### **M40SE ESSENTIAL MATHEMATICS 40S**

CREDIT: 1

Grade 12 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics and science related fields. Grade 12 Essential Mathematics is a one-credit course emphasizing consumer applications, problem solving, decision making, and spatial sense. Students are expected to work both individually and in small groups on mathematical concepts and skills encountered in everyday life in a technological society.

### **M40SA APPLIED MATHEMATICS 40S**

RECOMMENDED: MATHEMATICS 30S APPLIED OR PRE-CALCULUS.

CREDIT: 1

Through classroom learning activities in Applied Mathematics, students acquire technical communication skills, solve problems using technology, and develop responsibility and

flexibility in their work habits. Using technology as a tool, students explore many mathematical concepts, often while working on projects. While the content of the Applied Mathematics curriculum is similar to that of the Pre-Calculus Mathematics curriculum, the emphasis on technology as a means of solving problems allows modelling of many real-world situations. Students are required to purchase a TI-83 Plus Graphing Calculator (approximately \$140).

### **M40SP PRE-CALCULUS MATHEMATICS 40S**

RECOMMENDED: MATH 30S PRE-CALCULUS 65%.

CREDIT: 1

40S Pre-Calculus Mathematics is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in 30S Pre-Calculus Mathematics and provides background knowledge and skills for the study of calculus in post-secondary institutions. The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics include study of transformations of functions, trigonometric functions, exponential functions, logarithmic functions, polynomial functions, radical functions, rational functions, and the binomial theorem.

### **M40SPA PRE-CALCULUS MATHEMATICS ADVANCED 40S**

CREDIT: 1

This course is a continuation of Pre-Calculus Mathematics 30S Advanced. Topics in this course include advanced trigonometric and circular functions, operations on functions, transformations and permutations and combinations.

**Students interested in taking the 42AP Calculus AB should register for Pre-Calculus Mathematics Advanced 30S and 40S in their Grade 11 year.**

### **APM42SA ADVANCED PLACEMENT CALCULUS MATHEMATICS 42S**

CREDIT: 1

Calculus AB is an introductory university-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. A graphing calculator is required.

## **MUSIC**

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### **MUCB10S, 20S, 30S, 40S BAND 10S, 20S, 30S, 40S**

RECOMMENDED: GRADE 8 BAND, OR PREVIOUS MUSICAL EXPERIENCE.

CREDIT: 1

Each of these Band courses includes two or three, 1-hour rehearsals per week on every other day for the whole year. This allows students to perform in an inviting setting where students can use technology to access music recordings and programs, as well as have one-on-one tutorials with the teacher outside of class time to improve their playing skills. Band is a fun, unique, performance-oriented course. Participation in all ensemble performances and local festivals is expected. Some band instruments can be provided by the school if necessary. You should get in touch with the instructor ahead of time to ensure that one could be provided for you.

### **JAZZ BAND 20S, 30S, 40S**

STUDENTS MUST ALSO BE ENROLLED IN CORRESPONDING LEVEL OF BAND/GUITAR CREDIT: 1

Each of these courses is one credit per year, spread out over the whole year with classes on every other day. It is expected that students make every effort to improve in rhythm, in reading, and playing skills, where they will increase their understanding of playing different styles of contemporary band music. Participation in all ensemble performances and local festivals is expected. Jazz band is a unique opportunity to feel like part of a smaller music community and really hone in on more technical playing skills to enhance your ability to enjoy music making.

### **MUCC10S, 20S, 30S, 40S CHOIR 10S, 20S, 30S, 40S**

CREDIT: 1

Choir is a one credit course including exposure to singing music of all different periods and styles. The basics of vocal technique and choral singing will be studied. As this is a performance-oriented course, participation in all ensemble performances, local festivals and workshops is expected and very fun—students typically don't want to miss out on them. Activities during the year may include: Festivals, School Functions, and Community Functions including performances in other schools. Choir is a fantastic way to explore mindfulness in our daily lives, as it teaches relaxation techniques in breathing methods.

**MUG10S, 20S, 30S, 40S  
GUITAR 20S, 30S, 40S**

CREDIT: 1

This course will develop each student's guitar playing skills, with an emphasis on popular music styles, through group and solo performance. Students of all abilities are welcome and encouraged to join the guitar class. Students with prior playing experience will be provided with opportunities for advanced instruction and performance opportunities. The guitar class is a relaxing and enjoyable break during a busy day. Learning the guitar can provide hours of enjoyment during leisure time. Guitars for in class instruction can be provided by the school.

**MUMP20S, 30S, 40S  
MUSIC PRODUCTION 20S, 30S, 40S**

CREDIT: 1

Students of all abilities and interests are welcome. This course teaches the practical application of concepts and skills needed in a recording/home studio while allowing time for students to pursue their own projects and areas of interest.

Areas of focus include:

- Potential live or virtual field trips to commercial recording studios and live sound venues.
- Audio recording
- Digital editing and mixing
- Song arrangement techniques
- Video editing and music videos
- Microphones and mixing consoles
- Live sound opportunities such as providing technical support for school productions and concerts.

**PHYSICAL EDUCATION**

**PEH10F PHYSICAL EDUCATION/  
HEALTH EDUCATION 10F**

CREDIT: 1

The aim of the Physical Education Program is to promote fitness and participation in lifelong activities. Students will develop the necessary skills to participate successfully in a variety of team and individual sports. Fitness

management, weight training, personal and social management, first aid and our healthy lifestyles units are all required units that each student must complete.

**PEH20F PHYSICAL EDUCATION/  
HEALTH EDUCATION 20F**

CREDIT: 1

This course will be similar to our Physical Education 10F class. Students will continue to develop their skills to promote fitness and participation in lifelong activities. Students will have the opportunity to choose several activities or sports they would like to participate in. Fitness management, weight training, CPR, nutrition and our healthy lifestyles units are all required units that each student must complete.

**PEH30F PHYSICAL  
EDUCATION/HEALTH  
EDUCATION 30F**

CREDIT: 1

This course is designed for students who enjoy participating in sporting activities such as basketball, volleyball, soccer, floor hockey, ultimate frisbee and badminton. This class will take place in the gymnasium or using outside facilities (football field, baseball diamond, etc.). Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class general physical education hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

**PEH30F PERSONAL FITNESS/  
HEALTH EDUCATION 30F**

CREDIT: 1

Students create a personalized workout program consisting of resistance training and cardiovascular activities. This includes access to the Cardio Room (treadmill, stationary bike, elliptical) and Weight Room. Specific exercises like jump training and plyometrics can be incorporated into

workouts. Activities may include yoga, pilates, HIIT, circuit training and exercise videos.

Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class personal fitness hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

**PEH40F PHYSICAL  
EDUCATION/HEALTH  
EDUCATION 40F**

CREDIT: 1

This course is designed for students who enjoy participating in sporting activities such as basketball, volleyball, soccer, floor hockey, ultimate frisbee and badminton.

This class will take place in the gym or using outside facilities (football field, baseball diamond, etc.).

Students must complete the following 3 components of the program: Core Health, Flexible Delivery (in class general physical education hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

**PEH40F PERSONAL FITNESS/  
HEALTH EDUCATION 40F**

CREDIT: 1

Students create a personalized workout program consisting of resistance training and cardiovascular activities. This includes access to the Cardio Room (treadmill, stationary bike, elliptical) and Weight Room. Specific exercises like jump training and plyometrics can be incorporated into workouts. Activities may include yoga, pilates, HIIT, circuit training and exercise videos. Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class personal fitness hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

**OLPEH30F ONLINE LEARNING  
PHYSICAL EDUCATION/HEALTH  
EDUCATION 30F**

CREDIT: 1

Online physical education students are motivated to do well in their courses and frequently register due to timetabling conflicts. Students are self-disciplined, which is reflected in their organization, time management and quality of work. Students should be very comfortable with educational technology (navigating websites, media tools, word processing...) and be willing to dedicate a minimum of 5 hours a week to the course.

Students are responsible for mastering the lessons, completing the learning activities and assignments, attending monthly meetings and maintaining an up-to-date activity journal. This course is designed to help students incorporate physical education as part of their daily routine.

**OLPEH40F ONLINE LEARNING  
PHYSICAL EDUCATION/  
HEALTH EDUCATION 40F**

CREDIT: 1

Online physical education students are motivated to do well in their courses and frequently register due to timetabling conflicts. Students are self-disciplined, which is reflected in their organization, time management and quality of work. Students should be very comfortable with educational technology (navigating websites, media tools, word processing...) and be willing to dedicate a minimum of 5 hours a week to the course. Students are responsible for mastering the lessons, completing the learning activities and assignments, attending monthly meetings and maintaining an up-to-date activity journal.

## SCIENCE

### S10F SCIENCE 10F

CREDIT: 1

Science 10F is a required core course. The course has four units from a variety of science disciplines. These include Exploring the Universe, Atoms and Elements, the Nature of Electricity and

### S20F SCIENCE 20F

CREDIT: 1

Science 20F is a required core course.

This course consists of four major units: Dynamics in Ecosystems, Chemistry in Action, In Motion, and Weather Dynamics. These units help to provide students with some basic scientific concepts so that they can better understand issues in the world around them. These units also provide a taste of Biology, Chemistry, Physics, and Earth Science. Students may choose to take more specialized courses in these disciplines in their Grade 11 and Grade 12 years.

### S30S SENIOR 3 CURRENT TOPICS IN SCIENCES 30S

CREDIT: 1

Topics in Science 30S is a course that can be taken with Biology, Chemistry, Physics 30S or on its own as a Grade 11 science credit. The course content is intended to be both current and relevant and can be modified to fit the interests of students and instructor. Students will be involved in a significant amount of independent research as well as group work. Examples of possible topics are: Health and wellness, digestive system, immunity, space and ecological issues as well as a variety of possible industrial/vocational applications, and environmental science.

### B30S BIOLOGY 30S

CREDIT: 1

This course looks at the structure and functioning of the human body.

The major organ systems will be investigated with a focus on understanding and maintaining personal wellness. Finally, the diversity of living organisms is examined with hands on dissections and a look at the principles of Evolution.

### B30SA BIOLOGY ADVANCED 30S

CREDIT: 1

This course is designed to help students develop a conceptual framework for modern biology and an appreciation of science as a process. Students will be involved in laboratory work with the goal of developing an understanding of concepts including the science of life, evolution, energy transfer, interdependence in nature and science, and the anatomy and physiology of all the major human body systems.

**Students interested in taking 42AP Biology are encouraged to register for this course in their Grade 11 year.**

### B40S BIOLOGY 40S

CREDIT: 1

Biology 40S starts with an intensive look at DNA, RNA and protein synthesis with application to the current topics of Genetic Engineering and Biotechnology. Mendelian and Human Genetics is then explored in detail. Finally, the diversity of living organisms is examined with hands on dissections and a look at the principles of Evolution.

### APB42S ADVANCED PLACEMENT BIOLOGY 42S

CREDIT: 1

AP Biology is an introductory university-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

### C30S CHEMISTRY 30S

CREDIT: 1

Students enrolled in this course should have completed or be

studying Mathematics 20S (Pre-Calculus or Applied). Chemistry 30S involves the study of the physical properties of matter, properties of gases, quantities of matter in chemical reactions, properties of solutions and organic chemistry. The properties of matter are explained by understanding behaviour at the atomic or molecular level. Laboratory work is also an important tool for learning.

### C30SA CHEMISTRY ADVANCED 30S

CREDIT: 1

This course is designed to expose students to topics in Chemistry such as the physical properties of matter, gases and the atmosphere, chemical reactions, solutions, as well as organic chemistry. This course will also incorporate some units from the Chemistry 40S curriculum.

**Students interested in taking 42AP Chemistry are encouraged to register for Chemistry Advanced 30S and 40S in their Grade 11 year.**

### C40S CHEMISTRY 40S

CREDIT: 1

The emphasis in Chemistry 40S is on a theoretical and quantitative treatment of topics such as electronic structure, kinetics, equilibrium, electro chemistry, and oxidation-reduction. Grade 12 Chemistry is a prerequisite for many of the science related courses at university and at Red River College.

### CHEMISTRY ADVANCED 40S

CREDIT: 1

This course is designed to continue to expose students to topics in Chemistry including organic chemistry, reaction rates, chemical equilibrium, solubility equilibrium, acids and bases and electro-chemistry.

**Students interested in taking 42AP Chemistry are encouraged to register for Chemistry Advanced 30S and 40S in their Grade 11 year.**

### APC42S ADVANCED PLACEMENT CHEMISTRY 42S

CREDIT: 1

AP Chemistry is an introductory university-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. Students explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

### P30S PHYSICS 30S

CREDIT: 1

Physics 30S includes a study of waves and wave theory, paying special attention to sound, light, and wave technologies. The mechanics unit focuses on basic kinematics (motion) and dynamics (the forces causing motion). Gravitational, electric, and magnetic fields are explored. The emphasis is on a qualitative understanding of fundamental physics concepts, but some analytical skills required for problem-solving, including algebra, trigonometry, graphing, and vector analysis, are

### P40S PHYSICS 40S

CREDIT: 1

Topics from Physics 30S are revisited in far greater mathematical detail. The studies of kinematics and dynamics are extended to include projectile motion, inclined planes, circular motion, work, energy, power, and momentum. The exploration of space unit includes a treatment of universal gravitation. The fields unit is extended to include Coulomb's law and electrical circuits. The course also includes a unit on physics-based medical technologies. Strong analytical and problem-solving skills are essential.

## SOCIAL SCIENCES

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### HEC10SFS FAMILY STUDIES 10F

CREDIT: 1

This course explores adolescent development from the perspective of the adolescent student. The course will cover such topics as:

- developing positive relationships
- sexuality and sexual health
- personal health and wellness
- communication
- conflict resolution
- personal values
- our community
- diversity in society
- financial wellbeing

### HEC20SFS FAMILY STUDIES 20F

CREDIT: 1

This course is designed to bring infant development and parenting concepts alive for students. The course will cover such topics as:

- Birth
- Careers and volunteer activities related to children
- Caregiving
- Fundamentals of development
- Parenting: Role of the caregiver
- Prenatal development studying children
- Infant health and wellness
- Pregnancy

### HEC30SFS FAMILY STUDIES 30S

CREDIT: 1

The course focuses on the four areas of development (physical, intellectual, social and emotional) from age three through to pre-adolescence. This course will cover such topics as:

- Careers related to children
- Emotional development
- Human needs
- Intellectual development
- Physical growth and development
- Play
- Social development
- Studying children
- The importance of parenting
- The nurturing environment
- Parenting styles

### HEC40SFS FAMILY STUDIES 40S

CREDIT: 1

This course is designed to help students understand and explore the dynamics of the family unit. The course will cover topics related from adolescence through to the elderly. Such topics will include:

- The elderly
- Adolescent development
- Puberty
- Mental health and wellness
- Relationships
- Self-management
- Social development
- Gender roll and wellness

### PSY40S PSYCHOLOGY 40S

CREDIT: 1

Psychology is a course that will introduce students to the main components of human behaviour. Areas of focus include developmental psychology, normal and abnormal psychology, personality development, cultural, social and adolescent development. Topics are diverse, including non-verbal behaviour, advertising, psychological defense mechanisms, drives, needs and motivation, behaviourism, biological feedback, nature vs. nurture, religion in our society, psychology of death and grief and an examination of the human animal.

## SOCIAL STUDIES

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### BL40S CANADIAN LAW 40S

CREDIT: 1

This course provides the student with an introduction to Canada's legal system. This is an essential course for all students. You should register in this course if you plan on renting an apartment, buying a boat, snowmobile, starting your first job, getting married, having children, or even attending a sports venue. Students will learn about their rights as a private citizen and the opportunities the legal system can offer them for future employment. There will be guest speakers from the Winnipeg Police Service, Stony Mountain Corrections, Youth Corrections and the RCMP. This course can be used as a credit for university entrance.

### CCW10F CANADA IN THE CONTEMPORARY WORLD 10F

CREDIT: 1

The Grade 9 course is designed to help students gain a greater understanding of their society, their roles and responsibility within society and Canada's role on the world stage. Students will focus on the physical, historical and political factors that have shaped Canada. They will examine Canadian Identity, multiculturalism, our political, legal and economic processes, citizenship responsibilities and rights, and the implications of changing technology. Students will be required to do a variety of projects, research assignments, and presentations that promote literacy skill development and active citizenship.

### G20F GEOGRAPHIC ISSUES OF THE 21ST CENTURY 20F

CREDIT: 1

Students will focus on a variety of issues and challenges of the contemporary world. They will study concepts related to ownership and development of natural resources, production and distribution of food, development of industry and trade and increasing urbanization. These concepts will be studied as they relate to Canada, North America, and the world. Students will use methods and tools of geography including geographic information systems (GIS) to examine issues and problems and to provide solutions.

### HC30F HISTORY OF CANADA 30F

CREDIT: 1

This course takes a thematic approach to Canadian history placing particular emphasis upon social history. Themes that are examined are:

- The Peopling of Canada
  - First Peoples and New France
  - British North America
  - Becoming a Sovereign Nation
  - Achievements and Challenges
  - Defining Contemporary Canada
- There is an emphasis upon research and critical thinking in this course. Major tasks will include essay writing, article analysis, and presentations.

Note: Canadian History–30F is a required course for all River East Transcona School Division students.

### CTF40S CURRENT TOPICS IN FIRST NATIONS, METIS, AND INUIT STUDIES 40S

CREDIT: 1

Current Topics in First Nations, Metis, and Inuit Studies supports the empowerment of students through the exploration of the histories, traditions, cultures, world views and contemporary issues of Indigenous peoples in Canada and worldwide. Students gain knowledge and develop the values, critical thinking, communication, analytical, and inquiry skills that will enable them to better understand past and present realities of Indigenous peoples. Topics of study include:

- Image and Identity
- Relations with the Government
- Toward a Just Society
- Indigenous peoples of the World
- A Festival of Learning

This is a Grade 12 course that deals with mature content and concepts. However, the course will be open for students not in Grade 12 based on a case-by-

### TTR41G1 TREATIES AND THE TREATY RELATIONSHIP 40S

CREDIT: 1

The overarching goal of this course is to investigate the local Treaty 1 experience. The development of active democratic citizenship is fortified by a student understanding of the local Treaty relationship by engaging with local sources of knowledge as well as local spaces and places. Students investigate the historical and contemporary aspects of Treaty 1 using the themes of relationships, traditional teachings, local history, and Manitoba Numbered Treaties as entry points. The course is intended to: strengthen student identities by focusing on the local Treaty 1 experience; generate an awareness and understanding about First Nations people in Manitoba, and the contemporary relevance of the Treaty relationship as it expands Manitoban's concepts of identity and citizenship.

**GI40S GLOBAL ISSUES:  
CITIZENSHIP AND  
SUSTAINABILITY 40S**

CREDIT: 1

Global Issues: Sustainability and Citizenship provides learners with opportunities to reflect upon diverse world views and perspectives as they conduct inquiry into issues such as Media, Consumerism, Environment, Poverty, Wealth, and Power, Indigenous Peoples, Peace and Conflict, Oppression and Genocide, Health and Biotechnology, Gender Politics, Social Justice and Human Rights that are crucial to living in a contemporary, interdependent, connected world. The course is intended not only to enrich learners' awareness of significant global issues, but to develop an ethos of concern as they come to understand their own capacities as contributing members of their local, national and global communities. Course work consists highly of "take action" initiatives where students need to devise ways of becoming contributors the global community. Students should have an interest in global topics if they are registering for this course.

**GP30S PHYSICAL GEOGRAPHY 30S**

CREDIT: 1

If you care about the environment, you need to register for this course. We will explore concepts related to environmental science, climate change, and our natural world. Physical geographers also look at the connections between these systems, how they change over time, and the implications of these changes. We will use an Indigenous perspective to explore land-based learning. Weather permitting, we will get outside into our natural environment to carry out experiments and explore.

**CIN40S CINEMA AS A WITNESS TO  
MODERN HISTORY 40S**

CREDIT: 1

GRADE 11 STUDENTS MAY REGISTER FOR THIS COURSE. How do the movies compare to actual events? In this course, you will explore cinema as both an art form and interpreter of history. You will use the Historical Thinking Concepts from your grade 11 History class to analyze key events, ideas, and people, as represented in 20th and 21st century films. As we watch, you will engage in guided viewing responses, write film critiques, and conduct historical research to evaluate representations of history in film. Some of the themes we will explore include WWI/II, the Great Depression, the Holocaust, the Cold War, and the Civil Rights Movement and the Middle East.

**TECHNICAL VOCATIONAL  
OPTIONS  
(GRADES 9 & 10)**

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**GRADE 9 & 10  
AT10SIAT INTRO TO AUTOMOTIVE  
TECHNOLOGY**

(OPTION COURSE)

CREDIT: .5

This course will appeal to students who are interested in exploring the automotive repair industry. Auto tech students will gain knowledge in industrial safety, hand tool identification/use, and a basic introduction to vehicle systems and maintenance.

**GRADE 9 & 10  
CR10SE EXPLORATION OF  
COLLISION REPAIR AND  
REFINISHING TECHNOLOGY 10S**

(OPTION COURSE)

CREDIT: .5

This is designed to give students an opportunity to learn the basic skills in Collision Repair and Refinishing. Topics include safe work procedures/WHMIS and personal protective equipment, MIG welding, setup

maintenance, small dent repair, plastic repair, metal repair and fabrication, automotive detailing, paint preparation, spraying automotive finishes, automobile dismantling, tool use and maintenance.

**Students will take AT10SIAT Intro to Automotive Technology & CR10SE Exploration of Collision Repair and Refinishing Technology in the same semester.**

**GRADE 9 & 10  
BP10SE EXPLORING BAKING AND  
PASTRY ARTS 10S**

(OPTION COURSE)

CREDIT: 1

This hands-on introductory course is for students considering a career in the Pastry Arts or Hospitality Industry or simply wanting kitchen and bakeshop experience.

**GRADE 9 & 10  
CP10SIC INTRODUCTION TO  
CARPENTRY 10S**

(OPTION COURSE)

CREDIT: 1

Students will be introduced to wood working tools and how to safely use them in a shop environment. Students will build projects to familiarize them with the tools as well as some of the woods and wood products.

**GRADE 9 & 10  
CA10SECA EXPLORATION OF THE  
CULINARY ARTS 10S**

(OPTION COURSE)

CREDIT: 1

This hands-on course is for students considering a career in the Culinary Arts, Hospitality Industry or simply want kitchen and bakeshop experience. Students will spend two days per week in theory, and three days in the kitchen.

**GRADE 9 & 10  
ETT10SE EXPLORATION OF  
ELECTRICAL TRADES TECH 10S**

CREDIT: .5

This is an optional course intended for students wishing to sample the Electrical Trades. The emphasis is on hands-on activities. Students are introduced to safety, tools and equipment, electrical/electronic systems.

**GRADE 9 & 10  
RA10SERA EXPLORATION OF  
REFRIGERATION AND AIR  
CONDITIONING 10S**

(OPTION COURSE)

CREDIT: .5

This is an optional course intended for students wishing to sample the Refrigeration and Air Conditioning trade. The emphasis of this course is on hands-on activities. Students are introduced to safety, tools and equipment, refrigeration and air conditioning systems and service procedures.

**Students will take ETT10SE Exploration of Electrical Trades Tech and RA10SERA Exploration of Refrigeration and Air Conditioning in the same semester.**

**GRADE 9 & 10  
GD10SEGD EXPLORATION OF  
GRAPHIC DESIGN 10S**

(OPTION COURSE)

CREDIT: .5

This course is an introduction to the field of graphic design. Through a series of exercises that will incorporate drawing, collage, and the computer, students will explore the fundamentals of communicating visually. This will provide a fundamental understanding of how design is used to resolve creative problems in the field of graphic design.

**GRADE 9 & 10  
PH10SEP EXPLORATION OF  
PHOTOGRAPHY 10S**  
(OPTION COURSE)  
CREDIT: .5

This optional course is designed for students to explore photography from various perspectives. Students will learn the basic functions of DSLR cameras, introductory skills in Photoshop and principles of composition. They will also learn how to make the most of natural and studio light and how to control it. This is a hands-on course where students will take lots of pictures and learn how to edit them.

**Students will take GD10SEGD Exploration of Graphic Design and PH10SEP Exploration of Photography in the same semester.**

**GRADE 9 & 10  
HS10SEH EXPLORATION OF  
HAIRSTYLING 10S**  
(OPTION COURSE)  
CREDIT: 1

This introductory course is perfect for those eager to explore the dynamic and ever-evolving beauty industry and its wide range of career opportunities. Students will gain hands-on experience in essential areas such as basic hair maintenance, thermal and wet styling, updos for special occasions, nail care, and proper skin care, all while emphasizing personal health and wellness. In addition to working with mannequins, students will also practice techniques on themselves and their peers. Throughout the course, they will learn the importance of effective communication, stay up to date with the latest trends, and understand how these trends shape the hairstyling profession.

**GRADE 9 & 10  
DM10SEDM EXPLORATION OF  
INTERACTIVE DIGITAL  
MEDIA 10S**  
(OPTION COURSE)  
CREDIT: 1

Students will create an online

portfolio of work that includes web development, animation, 2D and 3D games. Students will engage in the prototyping process to conceive, collaborate, plan, draw, model, code, test and revise digital media projects.

## **VISUAL ARTS**

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**VART10S VISUAL ART 10S**  
CREDIT: 1

Visual Art 10S is an exploratory course for Grade 9 students who may wish to continue with art courses in the future. Students will explore various 2 and 3-dimensional art forms to learn about the elements and principles of design. Students will explore major units including drawing and painting from different art styles, creative and mixed media exploration. Students will have an opportunity to try hand building with clay and other sculpting materials. Students will receive their own sketchbook, and they will have access to a variety of shared art materials.

**VART20S VISUAL ART 20S**  
CREDIT: 1

Visual Art 20S is an introductory course designed for students wishing to learn art techniques and explore art concepts with some depth. Students will develop drawing skills, perceptive abilities and will solve problems of artistic expression. Techniques, art history, and creative expression are developed during our major projects that include drawing, painting, mixed media, clay sculpture, printmaking and still life. Students will receive their own sketchbook, and they will have access to a variety of shared art materials.

**VART30S VISUAL ART 30S**  
CREDIT: 1

Visual Art 30S is an advanced course that builds on skills achieved during 10S/20S Visual Art or the equivalent. Artists will create a portfolio of technical and creative work during their time in the studio. Major units

will include working from still life, exploring movements and themes in painting, figure drawing, as well as sculpture options with clay. Based on their previous training, students will begin to demonstrate originality and insight in their use of materials and ideas for their artwork. Students will receive their own sketchbook, and they will have access to a variety of shared art materials.

**VART40S VISUAL ART 40S**  
CREDIT: 1

Visual Art 40S is an in-depth course that builds on skills achieved during 30S Visual Art or the equivalent. Artists will create a portfolio of creative, technical, and thematic work during their time in the studio. An advanced study in studio skills, art history and visual literacy will allow students to explore a wide variety of materials and subjects. Students will proficiently demonstrate originality and insight in their use of materials and ideas for their artwork. Students will receive their own sketchbook, and they will have