

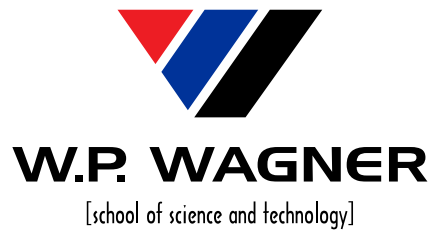


W.P. WAGNER

[school of science and technology]

2016/17 Viewbook

Check out our website at wpwagner.epsb.ca



W.P. Wagner School of Science and Technology is an exciting, innovative high school with an emphasis on excellence in the four A's: Academics, Arts, Athletics, and Active student participation. Located in southeast Edmonton, W.P. Wagner attracts motivated students from throughout the city who are seeking an academic experience that is second to none. We are proud to offer students a rich variety of outstanding programs such as our FIRST Program and our strong Advanced Placement Program. With the support of our highly skilled staff, students benefit from a meaningful, well-rounded high school experience.

At W.P. Wagner we believe strongly in preparing young people for a future that stresses the importance of a rigorous academic education, with an emphasis on the most up-to-date technological skills. Furthermore, our high standards for conduct and character create a safe, productive learning environment where students strive for personal excellence as they develop the knowledge and skills that will serve them in high school and beyond. Your future starts now and we are here to help!



EXCELLENCE

At W.P. Wagner, we strive for excellence in all of our programs. Excellence is not the exception, it is the prevailing attitude.

- Unique science and technology focus
- Outstanding diploma exam results and course completion rates
- Enrichment through FIRST and Advanced Placement
- Outstanding Fine Arts program
- Award winning Physical Education program
- High calibre athletics

INTEGRITY

Trustworthiness, respect, responsibility, fairness, caring and citizenship are core values at W.P. Wagner.

- High standards for conduct and safety
- Students accept responsibility for themselves and others
- Students do what is right, not what is popular
- Commitment to our community through active citizenship
- Student leadership in planning school events and charity fundraisers
- Culture of support including grade coordinators, counsellors, and peer support

STRENGTH

There is strength at W.P. Wagner. Whether it is our challenging and meaningful academic courses, our unique and diverse options, or our exceptional extracurricular activities, there are countless ways to discover your strengths.

- Well equipped classrooms and excellent lab facilities
- Multiple state-of-the-art computer labs
- Diverse options including: Advanced Acting, Construction, Cosmetology, Communication Technology, Food Studies, Forensics, Horticulture, Jazz Band, Pottery, and much more
- Superb Fitness and Wellness Centre
- Opportunities to be involved in high quality athletic teams



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#WagnerWarriors

We Are ...

W.P. WAGNER

MESSAGE FROM THE PRINCIPAL



We understand that the transition to high school is an exciting time for students and their parents. At W.P. Wagner we help guide students towards making informed choices about courses, programs, and goals.

What makes our school unique is the strength of our excellent staff, the vibrancy of our students, and the excellence that they achieve together. Parents, staff, and students work together to ensure that students realize their potential and develop skills they need to be successful.

We offer a wide range of programming to ensure that students have the opportunity to have a positive, focused school community where individuals treat one another with respect. We encourage students to become involved in our many extra curricular activities to further their skills, make new friends, and build lasting memories.

I invite you to visit our school so that you may experience all that W.P. Wagner has to offer.

Fred Buffi
Principal

*"My three years at W. P. Wagner were unforgettable.
I feel prepared and excited to face the challenges
and opportunities that lay ahead."
—W. P. Wagner graduate*

OUR FORMULA FOR SUCCESS

Outstanding programs, excellent facilities, and a safe and productive environment await you at W.P. Wagner.

Our school is a dynamic and innovative learning community with a focus on preparing students for a future that stresses the importance of academic and technological skills.

Make your high school experience memorable as you participate in a wide variety of teams, clubs, and school events. Strive for excellence while developing the character, citizenship, and leadership skills that will give you a distinct advantage in high school and beyond.

The highly skilled staff at W.P. Wagner are dedicated to helping each student acquire the knowledge, skills, and attitudes they need to reach their potential. Together we can achieve great success and create a school where excellence, integrity, and strength are at the heart of all we do.



MISSION

We are committed to preparing students for their future by providing a diversity of exceptional programming and varied learning experiences with an emphasis on utilizing technology to improve student achievement.

VISION

To be an exemplary school that promotes the pursuit of personal bests by creating a caring, respectful school community that fosters integrity, responsibility, and excellence.



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We Are ...

YOUR FUTURE

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"I thought high school would be scary, but I love it so far"
— Grade 10 student

MAKING THE MOVE TO HIGH SCHOOL

We are committed to helping you make a great transition to high school. The most important first step is for you to choose the high school most suited to *your* needs and goals. Visit Open Houses, attend information sessions, and read through print material, such as this guide, carefully. If you are satisfied that W.P. Wagner is the right school for you, great! The next step is to keep working hard in grade nine, plan your high school program, and learn about our school so that you will feel comfortable and eager to attend in September.



REGISTRATION AND TRANSITION

W.P. Wagner's friendly staff and students will support and assist you in taking this exciting journey. In April, our counsellors will guide you step-by-step as you select your courses using an innovative online registration system developed right here at W.P. Wagner.

Once enrolled, you'll be invited to our annual "Warrior Friends Evening" in May. At this exciting event you will meet other new students in small groups and will be given a school orientation by friendly student volunteers who remember what it was like when they were in your shoes.

At the end of the summer, you will be mailed a package of information including important dates for fall registration. You will be scheduled to come to the school on a specific day to pay school fees, get textbooks, and have your photo taken. Throughout the process you will find cheerful volunteers to help you at every step. You will also have the opportunity to select your locker and pay fees online.

PRE-ENROL ON SCHOOLZONE

We're improving the way we ask parents to pre-enrol for 2016-2017. In previous years, parents indicated their child's preferred school on a paper passport. In the spring of 2015, we moved to the process online.

Between **March 14 and April 15, 2016**, parents of students currently attending district schools can select their child's preferred school for 2016-2017 on SchoolZone. You can even use the mobile version of SchoolZone to complete the process directly from your smartphone!

Questions? Talk to the Principal at your child's current school.

Have you moved? Update your child's current address with your current school's office before pre-enrolling on SchoolZone.

New to the District? Contact your preferred school to learn how to register as a new student before April 15, 2016.

TRANSITION



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We Are ...

SCIENCE

Our Unique Science and Technology Focus

Students at W.P. Wagner have a distinct advantage: they study in computer rich facilities. Furthermore, they appreciate the importance of scientific knowledge and technological skills, and they have ample opportunities to grow and learn in these areas.

Students are **strongly encouraged** to take full advantage of our technology by taking an introductory computer course in grade 10. They may also choose an intermediate or more advanced course.

Our teachers are continually striving to use technology as a tool to improve student learning and achievement. At final exam time, our students clearly benefit from the opportunity to write all essay exams on computers. At W.P. Wagner we are working to ensure that our students are always a step ahead and it shows in our results!



FACILITIES AND PROGRAMS

- Wi-Fi throughout the school
- High speed computer labs including designated labs for each core subject area
- State of the art Communication Technology Centre
- Bright, spacious, well equipped science lab classrooms allow for hands-on learning
- Outstanding facilities for Career and Technology Studies (CTS) programming
- Chromebooks
- Technology incorporated into every subject
- Classrooms equipped with internet and audio/visual presentation systems
- High speed video-conferencing hardware to connect W.P. Wagner to the world through the SuperNet
- SMART boards
- Netbooks
- Computer Sensors & Probeware

"Mentorship is great for helping youth make decisions for their futures. Although I may not grow up to be a biologist, mentorship has allowed me to get a taste of what it would be like."

— Grade 10 student



The FIRST Program

(Focus in Research, Science, and Technology)

The one-of-a-kind FIRST Program is an innovative enrichment program aimed at students with a genuine interest in science and technology who thrive in an accelerated classroom and are accomplished, independent learners. Our aim is to prepare honours students for post secondary studies in the areas of sciences, engineering, computer sciences, and advanced technologies.

MENTORSHIP

Mentorship is an **optional**, but very popular component of FIRST. Each student is paired with a mentor in a chosen field of interest. Most of our mentors are identified through our award-winning collaboration with the U of A Graduate Studies Outreach Program. Additional mentors are from other institutions such as NAIT or local businesses. Mentors are not limited to the fields of science and technology.

W.P. Wagner is extremely proud of the Mentorship Program. Through the program, countless students have verified that they want to pursue a given career path, others have realized that their "ideal career" was not what they had expected, and some are still exploring and change their mentor each year.

BENEFITS OF FIRST

- Enriched programming following Alberta Education curricula in 3 Science disciplines with others who share your interests and motivation to succeed.
- Students taking AP Science will also be part of the FIRST program which will further enrich their AP and Alberta curriculum. Students will enjoy the flexibility of being able to choose the FIRST/AP Science courses they wish to take.
- Explore career paths through mentorship, guest speakers, and field trips.
- Creative and talented teachers.
- Opportunities to participate in elite conferences, science camps, and workshops.

HOW DO YOU QUALIFY FOR FIRST?

Students who successfully apply for the AP program will also be a part of the FIRST program. Students who are planning to take FIRST/AP Science courses require a minimum of 80% in grade nine Science and Math. For more information about applying to AP, please see pages 8 and 9.

"When I was contemplating attending W.P. Wagner, mentorship was one of the deciding factors. I had the opportunity to explore the entire hospital, from entering the emergency room, to looking at x-rays in surgery rooms!"

— Grade 12 student



FIRST

All FIRST students are invited to attend our Mentorship Information Night.
Check www.wpwagner.epsb.ca for dates.



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We Are ...

ENRICHMENT

Advanced
Placement

THE ADVANCED PLACEMENT ADVANTAGE

ARE YOU:

- Self-motivated?
- High achieving?
- Looking for intellectual challenge?
- Inquisitive?
- Independent thinker?
- Stimulated by engaging discussion?

Advanced Placement offers an invigorating learning environment!

Push your academic limits and reach your full potential!

Stretch yourself and your mind!

*"Knowledge
is power, but
enthusiasm pulls
the switch."*

Ivern Ball

Research shows that AP students are more likely to attend and succeed in post secondary school, with an increased number pursuing double major degrees and post graduate studies, including PhDs.



WHAT IS ADVANCED PLACEMENT?

- An international program of college level courses providing enriched learning to motivated students.
- Successful performance on AP exams allows students to apply to 3800 colleges and universities worldwide that grant students credit for first year college courses, placement in the second year courses, or both.
- AP is offered at more than 17,000 schools in 116 countries.

- The number of schools participating in AP internationally, in Canada, and in Alberta has increased dramatically in the past decade.
- Over 2.9 million AP exams were written in May 2012.
- Alberta has the third largest AP program in Canada, after British Columbia and Ontario, with 76 schools offering AP out of 580 nationally.

Additional information about W.P. Wagner's Advanced Placement Program is available in our Advanced Placement Program Booklet.

*"Desire is the starting point of all achievement,
not a hope, not a wish, but a keen pulsating
desire which transcends everything."*

- Napoleon Hill



2015 Top Academic - Grade 10, 11, & 12

BENEFITS OF ADVANCED PLACEMENT

- Develop the critical thinking, writing, reading, and research skills vital for success in post secondary.
- Flexible programming
 - » Students may take one or more AP courses or a full AP program.
 - » Students at W.P. Wagner get the benefits of the FIRST enrichment program and the advantages of the AP curriculum.
 - » Student timetables can be determined on an individual basis according to student interests, unique abilities, motivation, and extra-curricular commitments.
- Study subjects in greater depth and detail with equally interested students in smaller class groupings.
- Gain confidence in your ability by experiencing the rigours and pacing of a university level course in a supportive high school setting.
- Get an edge in the post secondary admissions process: AP courses on a transcript indicate the willingness and the maturity level to tackle more difficult courses.
- Positively impact your course grades: W.P. Wagner diploma results for AP students are significantly higher than provincial and district results.
- Be eligible for AP Scholar Awards and post secondary scholarships.
- AP students incur no costs for AP core subjects and final exams.

NEW FOR 2016 W.P. WAGNER IS INTRODUCING THE AP CAPSTONE PROGRAM.

The AP Seminar and AP Research classes are the main distinguishing features of AP Capstone. You will take AP Seminar in Grade 11, followed by AP Research in Grade 12. These courses will give you the opportunity to learn additional skills to use in other AP classes and university, but are not based in specific subjects such as Math, English, Science, or Social Studies. By participating in AP Capstone, you will learn to do the following:

- Analyze topics through different lenses for greater meaning or understanding
- Plan and conduct a study/investigation
- Propose solutions to real world problems
- Collaborate to solve a problem
- Plan and produce academic communications
- Integrate, synthesize, and make cross-cultural connections

If you take AP Seminar and AP Research and qualify in four other AP classes of your choosing while in High School, you will receive the AP Capstone Diploma. Otherwise, you can still qualify for the AP Seminar and Research Certificate, which shows you gained university-level academic and research skills.



COURSES OFFERED

Art:	Studio Art 2 Studio Art 3
AP Capstone:	AP Seminar AP Research
Computers:	Computer Science
English:	English Language and Composition English Literature and Composition
French:	French Language and Culture
Math:	Calculus AB
Music:	Music Theory
Social Studies:	European History
Science:	Biology Chemistry Physics

ADVANCED PLACEMENT



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Warrior Spirit

Get Involved and Make the Most of Your High School Years

At W.P. Wagner we know that there is more to your high school experience than classes and homework. Outside of your busy academic schedule you need to be able to unwind and enjoy your life as a student. We offer a wide variety of clubs, teams, trips, and fun school spirit events to enrich your experience. By getting involved, you will meet new friends, develop your leadership skills, and most importantly, create fond high school memories.

WOW HIGHLIGHTS

- Last year, we raised over \$43,000 during the 24 hour Wagathon for a local charity
- We hosted the 2-day Junior High Leadership Conference (JHLC)
- 98% of students dressed up for Halloween
- Participated in Festival of Trees
- Free popcorn every Friday!



SCHOOL CLUBS

- | | | |
|--------------------------|--|-----------------------------|
| • Anime Club | • First Nations, Metis, and Inuit Students' Club | • Warrior Friends |
| • Art Club | • Gay Straight Alliance (GSA) | • Yearbook |
| • Creative Writing Club | • Intramurals Club | • Young Blood for Life Club |
| • Media Club | • Learn to Play Chess Club | |
| • Envirothon Club | • Dungeons & Dragons Club | |
| • Fiction Addiction Club | • Team Club | |



W.P. WAGNER

[school of science and technology]

Highlights of the year include our Annual Touch of Class day where students dress in their finest, participating in a Winter Charity Event to support our community, and the ultimate talent show that showcases our diversity – Wagstock!

STUDENT ACTIVITIES & SPECIAL EVENTS

W.P. Wagner students truly shine when it comes to showing their citizenship, sense of community, and of course, WARRIOR SPIRIT! Here is some of the amazing events throughout the school year!

- Welcome Week Festival
- Rock the Red Athletic Pep Rally
- Terry Fox Run
- Halloween
- Warrior Dodgeball Tournament
- Touch of Class
- Festivus Week
- Wagstock Talent Show
- Multicultural Day
- Formal Friday
- 24 hour Wagathon (Bike-a-thon)
- Wagmarket
- Warrior Friends Night
- Warrior Floor Hockey Tournament
- Helping Hampers Campaign
- And various theme days



STUDENT LEADERSHIP 15, 25, 35

If you are passionate about making a difference in your school and community, then Leadership 15/25/35 is for you! We offer the most exciting and dynamic leadership programs in Alberta. With over 200 Wagner Students taking Leadership, we offer numerous opportunities to plan amazing school-wide activities, bolster school spirit, and create new friendships and memories! We want YOU to join our team!

LEADERSHIP OPPORTUNITIES

- Earn 5 credits per course
- Courses offered in and out of timetable
- Local community service projects
- Participation at WE DAY, Alberta Student Leadership Conference (ASLC), and the Canadian Student Leadership Conference (CSLC)
- Hard and soft leadership skills development
- Learn about yourself and others
- Numerous leadership scholarship opportunities
- Dynamic leaders from all grades!
- Volunteer at Festival of Trees, Read-In Week, CBC Turkey Drive
- Workshops with great leaders from our local community
- Plan the annual Local Initiative
 - » Humane Animal Rescue Team 2011
 - » Cross Cancer Institute 2012
 - » Stollery Children's Hospital 2013
 - » Ready for Life Foundation 2014



LEADERSHIP



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We Are ...

EXCELLENCE

Athletics

Warrior Athletics

W.P. Wagner encourages and supports the pursuit of athletic excellence within an educational environment. The W.P. Wagner Athletics Program supports approximately 250 dedicated and enthusiastic student athletes and offers a full compliment of sports teams to choose from.

- Cross-Country Running
- Volleyball
- Football
- Outdoor and Indoor Soccer
- Cheer
- Basketball
- Track & Field
- Curling
- Wrestling
- Badminton
- Rugby
- Cricket
- Golf



**W.P. WAGNER WARRIORS
METRO EDMONTON HIGH SCHOOL BADMINTON DIVISION 2 CHAMPIONS 2015**



**W.P. WAGNER WARRIORS
METRO EDMONTON HIGH SCHOOL
WRESTLING TEAM AGGREGATE CHAMPIONS 2015**



**W.P. WAGNER WARRIORS
METRO EDMONTON HIGH SCHOOL
MIXED TEAM CURLING ZONE
CHAMPIONS 2015**

*"Some of my best high school memories have been practicing in the gym or cheering in the stands."
— Grade 12 student*



W.P. Wagner High School recognizes the interest and enthusiasm for athletics by our student body – both those who participate on the various teams and those who participate as spectators or volunteers. We are proud of our long athletic tradition. It is one that has not only been a winning tradition, but one which has, through the years, worked to instill key values in our student-athletes which apply not only to athletics, but to life after High School as well. W.P. Wagner Athletics stands for much more than merely winning at sport. Strength, integrity, and excellence are all virtues that W.P. Wagner coaches try to instill in our young athletes. Coaches are expected to also instill such values as sportsmanship, teamwork, dedication, sacrifice, self-discipline, and dealing appropriately with both success and adversity and will not sacrifice these principles for better athletic performance or greater athletic success. Participation in Warrior Athletics can augment a quality educational experience and open up new doors of learning and leadership. Come out and become part of the experience as an athlete or a fan!



ATHLETICS

STRENGTH-INTegrity-EXCELLENCE



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W.P. WAGNER STUDENT SERVICES SUPPORTING SUCCESS

There are a number of possible ways to ensure that you will get the most out of your high school experience and we want to make sure that you are adjusting and doing well throughout the year.

PERSONAL COUNSELLING

- Help students cope with everyday issues
- Stress, anxiety, family issues, depression, self-esteem, anger management

ACADEMIC COUNSELLING

- Tutoring information
- Study and test taking skills
- Liaise between student and teacher

CAREER PLANNING

- Completion of electronic portfolio
- One-on-one meetings to discuss interests, values, passions, etc.

POST SECONDARY COUNSELLING

- High school plan leading to post secondary
- Post secondary plan
- Entrance requirements
- Scholarships and financial information

The bottom line is that we are here to help you reach your goals and feel positive in doing so. There really is a special feeling at W.P. Wagner – come and experience it for yourself!



We're here to help "when life gets in the way" of your success at W.P. Wagner!

HERE TO HELP

- High School Program Information
- Academic Counselling
- Career Counselling
- Personal Counselling
- Post Secondary Information Sessions
- Study Skills Workshops
- Learning, Studying and Test-Taking Assistance
- Career and Post Secondary Library
- Post Secondary Information
- Scholarships, Bursaries, Financial Aid
- Peer Tutoring Program
- Work Experience
- Registered Apprenticeship Program (RAP)
- Specialized Programming and Special Accommodations Assistance
- At-Risk Drug Intervention Support (ARDIS)
- Community Helpers Program

CAREER PLANNING & E-PORTFOLIO DEVELOPMENT

Each year at W.P. Wagner, students are provided with the opportunity to assess, examine, explore and plan for possible career paths with the guidance of our school counsellors.

GR. 10 - Personal Reflection & Skills Assessment

GR. 11 - Discovery & Career Exploration

GR. 12 - Goals & Planning For Transition

- Portfolio Presentation

(CTR2310: Career Directions-Expansion, 1 credit)

"Career planning programs may reduce adolescents' stress during career exploration and decision making. It is very important to high school students." (Witko & Bernes, 2005)



W.P. WAGNER

[school of science and technology]

*View life as a continuous
learning experience.*
- Denis Waitley



SPECIALIZED PROGRAMMING

The goal of W.P. Wagner is to provide our special needs students with academic and programming support that will enable a successful transition into high school. Our Special Needs Coordinator works collaboratively with the student, the teachers, and the parents to plan an individualized high school program.



INTERACTIONS PROGRAM

The Interactions Program at W.P. Wagner is a district site within EPSB. Its focus is intended to accommodate students with Autism Spectrum Disorder. Staff work with students on individual goals that include social, behavioural, functional academic, and life skills with emphasis on developing increased communication. Participation in a variety of integrated school and community settings is an integral part of the program.

LEARNING STRATEGIES 15/25/35

Learning Strategies is designed to assist students who may be experiencing academic difficulty in their core courses. This program provides identified students with support through the instruction of specific skills including goal setting, organization, time management, study skills, test preparation, and self advocacy.

SUPPORTIVE ACADEMIC “W” PROGRAMMING

Grade 10 students who require academic supports, in one or more subject, will receive a variety of programming options, which may include participation in our supported “W” core subject area classes. English 10-2W, Mathematics 10-3W, Science 14W, and Social Studies 10-2W are delivered to a relatively small group. The courses are designed to provide greater opportunity for student success through modifications in the pacing of the regular curriculum and in delivery of the content in a hands-on and engaging manner.

“W” classes are also offered in grade 11 and 12 in ALL core subject areas to assist students to meet their high school diploma requirements.

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PLAN FOR SUCCESS

STEP ONE: GOALS

Know your needs and aspirations. Consider your future goals and personal interests when selecting academic and option courses.

STEP TWO: EARNING CREDITS

Understand the high school credit, course numbering, and semester system.

- **Credits:** All courses require a 50% or better to earn credits and advance to the next level. Note that many academic courses recommend at least 65% to ensure success at the next level. Core classes are worth 5 credits each. 100 credits are necessary for an Alberta High School Diploma.
- **Course Numbering:** Course numbers indicate the grade and “stream.” Grade 10 courses are designated 10, 14, 10–1, 10–2 etc., while grade 11 courses begin with a 2 and grade 12 courses begin with a 3.

STEP THREE: DIPLOMA REQUIREMENTS

Understand the requirements for an Alberta High School Diploma. For more information check out www.alis.alberta.ca. You must earn a minimum of 100 credits, which must include:

- English 30-1 or 30-2
- Social Studies 30-1 or 30-2
- 10 credits in Science
- 20 level Math
- CALM
- Physical Education 10
- 10 Credits from CTS, Fine Arts, International Languages, and/or Physical Education 20/30
- 10 credits in any 30-level academic or option course(s) (in addition to English and Social Studies)

STEP FOUR: MAKE A 3-YEAR PLAN

Plan for balance in your credit load as you choose courses for each of the three years spent in high school. It is recommended that the following credit load be followed:

Grade 10 40+ credits

How will I know what courses to take? All grade 10 students select 8 courses including English, Social Studies, Science, Math, Physical Education and 3 Option Courses. Students in grade 10 are not permitted to have spares.

Grade 11 35+ credits

Grade 12 Students should plan their program to ensure that they will meet all diploma requirements within 3 years. To participate in graduation ceremonies at W.P. Wagner you must be on track to earn 100 credits by the end of your grade 12 year, including the requirements for courses (Step 3).

STEP FIVE: AWARDS FOR ACHIEVEMENT

Research available awards for academic achievement (e.g. Alexander Rutherford Scholarship, post secondary scholarships). Attend the scholarship information lunch sessions and the evening session offered at the school in the Fall.

STEP SIX: POST SECONDARY REQUIREMENTS

Research the entrance requirements for post secondary programs before finalizing your individual high school plan. Find information on individual school websites, or obtain viewbooks from our post secondary library. Visit Student Services for more information on post secondary entrance requirements, scholarships, and career information.

STEP SEVEN: APPLY

"The toughest part is fitting in all of the cool options I want to take!"
 – Grade 11 student



YOUR INDIVIDUAL PROGRAM

W.P. WAGNER PLANNING WORKSHEET

Apply your knowledge and plans by filling out and keeping track of your high school program plan (circle the course number you intend to take).

Grade 10		Grade 11		Grade 12	
English 10-1AP/ 10-1/10-2		English 20-1AP/ 20-1/20-2		English 30-1AP/ 30-1/30-2	
Social Studies 10-1AP/ 10-1/10-2		Social Studies 20-1AP/ 20-1/20-2		Social Studies 30-1AP/ 30-1/30-2	
Math 10C AP/10C/10-3		Math 20-1AP/ 20-1/20-2/20-3		30 Level Course	
Science 10AP/FIRST 10/14		Science 20/24, Biology 20AP/20 Chemistry 20AP/20 Physics 20AP/20		30 Level Course	
Physical Education 10		CALM			
Option		Option			
Option		Option		Option	
Option		Option		Option	

Did you know...

More students complete diploma essay exams using a computer at W.P. Wagner than at any other school in the district.

W.P. Wagner provides students with a variety of technology throughout classrooms and has over 400 computers in high speed computer labs including a state-of-the-art communication technology centre.

Students at W.P. Wagner have demonstrated a distinct advantage in diploma course success. In 2015 our students exceeded the district and provincial average for the acceptable standard in blended marks within nine of the ten diploma courses!

Our students make a difference in the community, raising money for the Edmonton Public School Foundation, Helping Hampers, Youth Empowerment and Support Services, and many more.

On the 2015 district satisfaction survey, W.P. Wagner surpassed the district average for safe and caring schools, student learning opportunities, preparing for lifelong learning, world of work, and citizenship.

SUCCESS



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SAMPLE COURSE SELECTIONS

GRADE 10

Note: All courses are 5 credits unless
otherwise indicated

ENGLISH LANGUAGE ARTS

English 10-1AP
English 10-1
English 10-2

MATHEMATICS

Math 10C AP
Math 10C
Math 10-3

SCIENCE

Science 10 FIRST/AP
Science 10
Science 14
FIRST Discoveries 10
(by application)

SOCIAL STUDIES

Social Studies 10-1AP
Social Studies 10-1
Social Studies 10-2



PHYSICAL EDUCATION

Phys. Ed. 10 Boys
Phys. Ed. 10 Girls
Phys. Ed. 10 Coed
Phys. Ed. 10 Coed
(Full Year opposite Band)*
Sports Medicine 15
Sports Performance 15

CAREER AND TECHNOLOGY STUDIES

Business & Information Tech 10
Communication Tech 10
Computer Science 10
Construction Tech 10
Cosmetology 10
Fashion Studies 10
Foods Studies 10
Horticulture 10

Photography 10

Yearbook (offered at lunch or
before/after school)

FINE ARTS

Art 10
Pottery 15
Drama 10
Advanced Acting 15 (by audition,
offered at lunch or before/after
school)
Music 10AP
Music 10 (Band)
Music 10 (Beginner Band)
Music 15 (Jazz Band)
Guitar 10
Symphonic Band 15 (by audition)

INTERNATIONAL LANGUAGES

French 10-9Y
Japanese 10-3Y
Punjabi 10-3Y
Spanish 10-3Y

OTHER

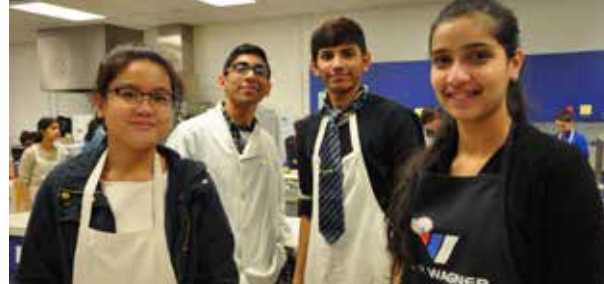
Learning Strategies 15
Leadership 15/25/35
Work Experience



W.P. WAGNER

[school of science and technology]

*The highest compliment that you
can pay me is to say that I work hard
every day, that I never dog it.*
-Wayne Gretzky



GRADE 11

ENGLISH LANGUAGE ARTS

English 20-1AP
English 20-1
English 20-2
English for Academic Success 35

MATHEMATICS

Math 20-1AP
Math 20-1
Math 20-2
Math 20-3

SCIENCE

Science 20
Biology 20 FIRST/AP
Biology 20
Chemistry 20 FIRST/AP
Chemistry 20
Physics 20 FIRST/AP
Physics 20
Science 24
Forensic Science 25/35
FIRST Discoveries 20 (by application)

SOCIAL STUDIES AND SOCIAL SCIENCES

Social Studies 20-1 AP
Social Studies 20-1
Social Studies 20-2
Psychology 20/30 (3 credits ea.)

PHYSICAL EDUCATION

Phys. Ed. 20 Coed
Sports Medicine 25
Sports Performance 25

CAREER AND LIFE MANAGEMENT

CALM (3 or 5 credits)

CAREER AND TECHNOLOGY STUDIES

Business & Information Tech 20
Communication Tech 20
Computer Science 20
Construction Tech 20
Cosmetology 20
Fashion Studies 20
Foods Studies 20
Horticulture 20
Photography 20
Yearbook (offered at lunch or before/after school)

FINE ARTS

Art 20
Pottery 25
Drama 20
Advanced Acting 25
(offered at lunch or before/after school)
Music 20AP
Music 20 (Band)
Music 25 (Jazz Band)
Guitar 20
Symphonic Band 25 (by audition)

INTERNATIONAL LANGUAGES

French 20-9Y
Japanese 20-3Y
Spanish 20-3Y

OTHER

Learning Strategies
Leadership 15/25/35
Work Experience

GRADE 12

ENGLISH LANGUAGE ARTS

English 30-1AP
English 30-1
English 30-2
English for Academic Success 35

SOCIAL STUDIES AND SOCIAL SCIENCES

Social Studies 30-1AP
Social Studies 30-1
Social Studies 30-2
Psychology 20/30 (3 credits ea.)

MATHEMATICS

Math 30-1AP
Math 30-1
Math 30-2
Math 30-3
Math 31AP
Math 31

SCIENCE

Science 30
Biology 30 FIRST/AP
Biology 30
Chemistry 30 FIRST/AP
Chemistry 30
Physics 30 FIRST/AP
Physics 30
Forensic Science 25/35

PHYSICAL EDUCATION

Phys. Ed. 30 Coed
Sports Medicine 35
Sports Performance 35

CAREER AND TECHNOLOGY STUDIES

Communication Tech 30
Computer Science 30
Construction Tech 30
Cosmetology 30
Fashion Studies 30
Food Studies 30
Horticulture 30
Photography 30
Yearbook (offered at lunch or before/after school)

FINE ARTS

Art 30
Pottery 35
Drama 30
Advanced Acting 35
(offered at lunch or before/after school)
Music 30AP
Music 30 (Band)
Music 35 (Jazz Band)
Guitar 30
Symphonic Band 35 (by audition)

INTERNATIONAL LANGUAGES

French 30-9Y
French 31a
Japanese 30-3Y
Spanish 30-3Y

WORK EXPERIENCE 15/25/35

May be taken in any grade. Students must meet with the Work Experience Coordinator in the year to confirm course registration.



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LITERATURE

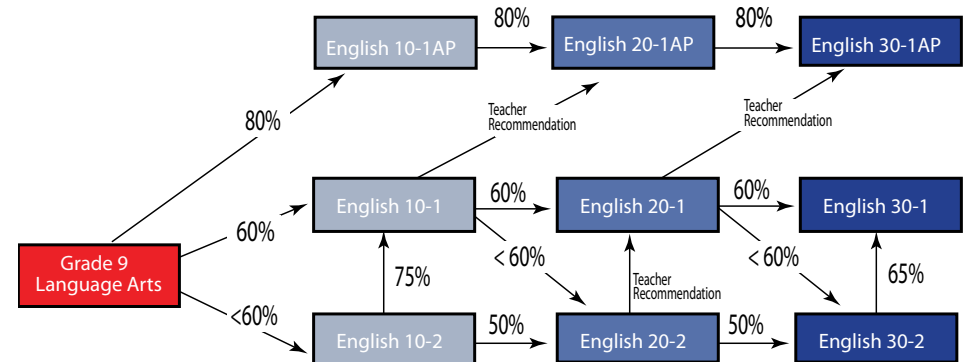
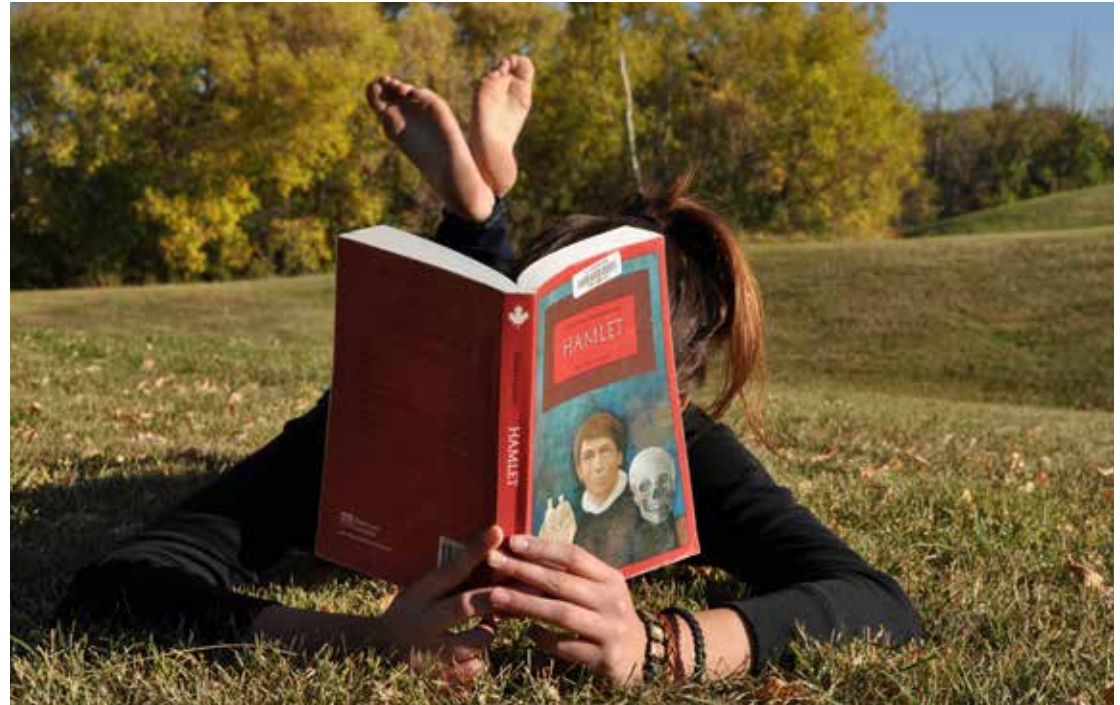
English

CLASSIC AND MODERN LITERATURE REBORN

Take classic English literature, combined with a multi-media approach, and you have just some of the elements of W.P. Wagner's English programs. Our focus on innovation gives students at all grade levels the opportunity to learn reading, writing, and presentation skills in a variety of ways.

The English Department at W.P. Wagner strives to provide challenging, innovative instruction that will allow students to successfully pursue the career of their choice with a strong command of the communication skills necessary for their future.

The Advanced Placement Program offers enrichment in English.



*"If people cannot write well, they cannot think well,
and if they cannot think well, others will
do their thinking for them."
- George Orwell*



ENGLISH COURSE STREAMS

ENGLISH 10-1/20-1/30-1 (5 CREDITS EACH)

Prerequisite: 60% in English Language Arts 9

English 30-1 is a requirement for entry into university and for a number of programs at NAIT, MacEwan and other institutions. Emphasis in this stream is placed on written composition and critical reading as students are exposed to a variety of literary genres.

ENGLISH 10-2/20-2/30-2 (5 CREDITS EACH)

Prerequisite: Less than 60% in English Language Arts 9

These courses focus on developing skills in practical uses of language. English 30-2 fulfills the minimum requirement for a high school diploma and is suitable for entry into post secondary programs that do not require English 30-1.

ENGLISH 10-1AP (5 CREDITS)

Prerequisite: 80% in English Language Arts 9

English 10-1AP is a pre-AP course which covers the 10-1 curriculum and prepares students for the Language and Composition and Literature and Composition Advanced Placement courses. Students should be prepared for the rigors of an academic course designed for honours students.

ENGLISH 20-1AP LANGUAGE AND COMPOSITION (5 CREDITS)

Prerequisite: 80% in English 10-1AP

The English 20-1AP course, Language and Composition, is designed to engage students in the careful reading and critical analysis of language. Students read a variety of texts representing various historical periods, rhetorical styles, and disciplines to explore how authors manipulate language to create meaning and evoke a response in the reader. Students will write the Language and Composition exam in May.

ENGLISH 30-1AP LITERATURE AND COMPOSITION (5 CREDITS)

Prerequisite: 80% in English 20-1AP

This course is an intensive introduction to reading, discussing, and writing about literature with special attention given to basic interpretive questions about the definition and meaning of literature. Students will write the Literature and Composition exam in May.



ENGLISH FOR ACADEMIC SUCCESS 35 (5 CREDITS) No Prerequisite

The English for Academic Success course provides opportunities for students to build and extend their communication skills within all aspects of their education. Students will engage with and examine a range of general, academic, and content-specific materials from a variety of curricular areas that will support their success in earning high school credits. They will study language, its functions, forms, vocabulary, and common cultural references required to improve their literacy skills so that they are able to engage with a variety of written, oral, and representational aspects of communication.

ENGLISH



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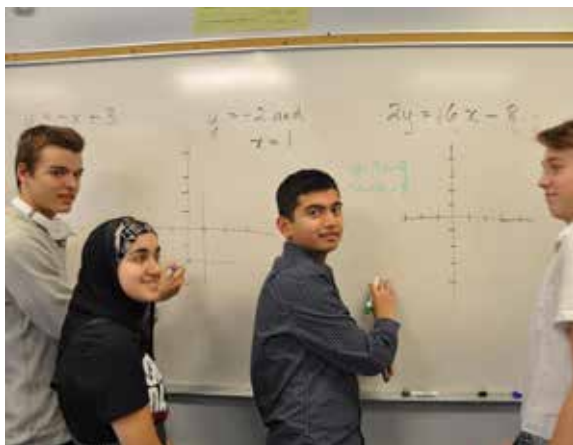


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FORMULA FOR SUCCESS

The enthusiastic and dedicated math teachers at W.P. Wagner are committed to helping students achieve personal success in mathematics. We offer programming at a variety of levels to ensure that students are challenged, supported, and on track to reach their future goals.

Students at W.P. Wagner appreciate how our teachers really go the extra mile to ensure that each student achieves success in mathematics... and it shows in our outstanding achievement results.



MATHEMATICS 10C (COMBINED)

(5 CREDITS)

Prerequisite: 50% in Math 9. A minimum of 50% is required to proceed to the next level.

This course is the starting point for the “-1” course sequence and the “-2” course sequence. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful for whatever course sequence they have chosen. The topics covered within a course sequence are meant to build upon previous knowledge and to progress from simple to more complex conceptual understanding. A graphing calculator is required for this course.

MATHEMATICS TRANSITIONS (NEW)

(5 CREDITS)

Prerequisite: 50% in Math 9 and teacher recommendation.

Math Transitions is a new course designed to make the transition to high school mathematics and science more successful. The pace and depth of the course are intended to prepare students more thoroughly for Math 10C and Science 10 which they will take in the second semester. The course will cover number skills, algebra skills and the basic concepts of Math 10C. To qualify for this course students must pass Math 9 with a mark of 50% to 64% (or a C) and have demonstrated a willingness to work hard, consistently attend class, and be a cooperative and engaged learner. This is not the special needs “W” math course. It is for those students who may struggle somewhat with mathematics but can be successful with sustained effort. Only those students who are recommended by their teachers will be allowed to register.

MATHEMATICS 10-3/20-3/30-3

(5 CREDITS EACH)

Prerequisite: 50% in previous course.

This course sequence is designed to provide students with the mathematical understanding and practical skills identified for entry into many of the trades and for direct entry into the work force.

MATHEMATICS 20-1/30-1

(5 CREDITS EACH)

Prerequisite: A minimum mark of 65% in the previous course is highly recommended.

This is a rigorous course sequence designed to provide students with the mathematical understanding and critical thinking skills required for entry into university, college, technical school or other post secondary programs that **require the study of calculus** such as engineering, science, business, and many technology fields. A graphing calculator is required for these courses.

MATHEMATICS 20-2/30-2

(5 CREDITS EACH)

Prerequisite: A minimum mark of 55% in the previous course is highly recommended.

This course sequence is designed to provide students with the mathematical understanding and critical thinking skills required for university, college, technical school, or other post secondary programs **that do not require the study of calculus** such as humanities, social sciences, and fine arts. A graphing calculator is required for these courses.

*The essence of mathematics is not to make
simple things complicated,
but to make complicated things simple.*
— S. Gudder



MATHEMATICS 31 (5 CREDITS)

Prerequisite: Math 30-1 A minimum mark of 65% is highly recommended.

Mathematics 31 is an introductory course in calculus. It covers the calculus of polynomial functions, trigonometric functions, and logarithmic functions. It is a requirement for students considering engineering or mathematics programs at the university level, as well as some mathematics-intensive programs in technical schools.

ADVANCED PLACEMENT MATHEMATICS 10C AP/20-1AP/30-1AP/31AP (5 CREDITS EACH)

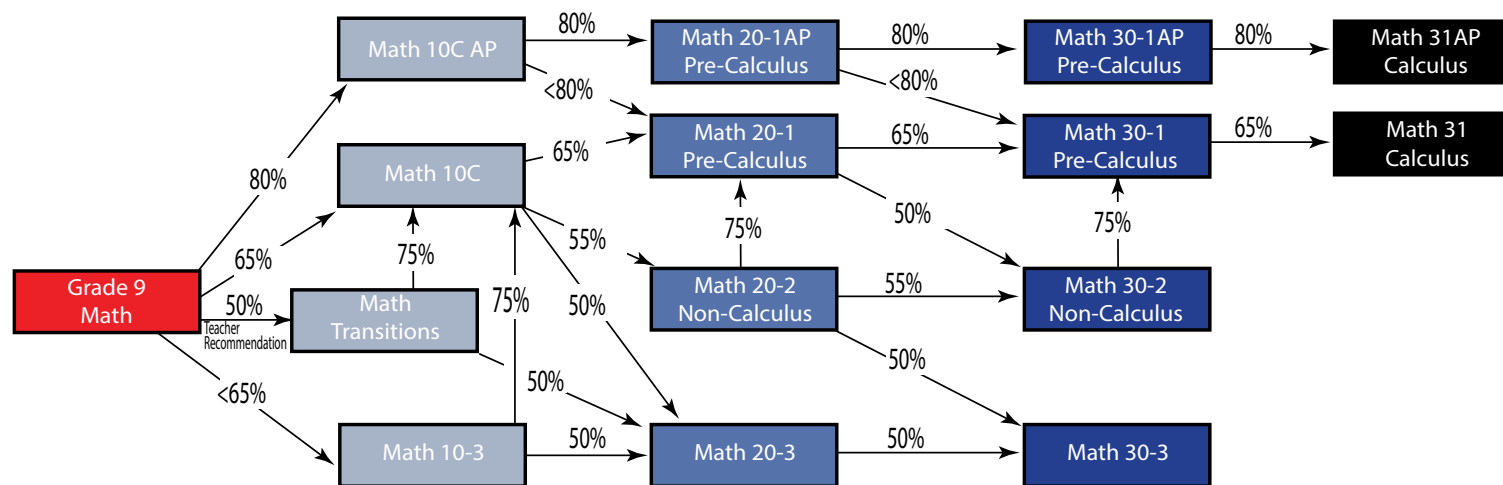
Prerequisite: 80% in Math 9. Students in the AP stream are required to achieve a minimum mark of 80% to proceed to the next level.

This sequence is intended for those students who excel in mathematics. An accelerated pace allows the courses in this sequence to extend, enrich, and supplement the outcomes covered in 10C, 20-1, and 30-1. This program is designed for students who wish to challenge themselves and/or those who are pursuing engineering, mathematics, or science related faculties. Both Math 20-1AP and 30-1AP must be taken in Grade 11.

Mathematics 31AP is an introductory calculus course leading to the Advanced Placement Calculus AB Exam. Successful completion of this course could lead to advanced placement or credit for introductory calculus at universities and colleges throughout North America.

The following link has the post secondary institutions' most up-to-date acceptance of Math 30-1 and Math 30-2 for specific faculties. Please check this link to see which sequencing fits your post secondary aspirations prior to registering.
alis.alberta.ca/ec/ep/aas/ta/mathreq.html

HIGH SCHOOL MATHEMATICS STREAMS



MATHEMATICS



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We Are ...

CITIZENSHIP

Social
Studies

LEARNING FOR LIFE

The aim for every Social Studies student at W.P. Wagner is to take an active and participatory role in an ever-changing world.

Drawing upon a wealth of information from history, geography, economics, social science, behavioural sciences, and humanities, classes focus on developing the knowledge and skills necessary to become valued contributors to society. Teachers in the Social Studies Department are passionate about inspiring students to become independent thinkers who use critical thinking to make informed decisions. We offer cutting-edge technologies to link our classrooms to the world so we can engage students and bring our curriculum alive.

We're very proud of the high achievement levels our students attain in regular programs; students in our AP Program consistently achieve in the top level of schools internationally.



ADVANCED PLACEMENT PROGRAM

SOCIAL STUDIES 10-1AP/20-1AP/30-1AP

(5 CREDITS)

Prerequisite 80% in Social Studies 9. Students in the AP stream are required to achieve a minimum mark of 80% to proceed to the next level.

Social Studies 10-1AP is a pre-AP course providing an enriched 10-1 curriculum which prepares students for the Social Studies 20-1AP/30-1AP European History university level course. This program will be of interest to students who wish to explore the role European history has played (since 1450) in helping to shape the

world in which they live. Historical events are studied in great depth and development of essay-writing skills to a university standard is emphasized. Advanced Placement courses provide excellent preparation for post secondary studies and may provide an opportunity for students to receive credit or advanced placement at university or college. These courses cover the AP curriculum as well as the Alberta Provincial Curriculum.

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has."
— Margaret Mead



SOCIAL STUDIES STREAMS

SOCIAL STUDIES 10-1/20-1/30-1

(5 CREDITS)

Prerequisite: 65% in previous course

This stream is intended for students interested in pursuing post secondary studies at university or college, as Social Studies 30-1 can be used to fulfill entrance requirements for most faculties. Students in these indepth courses will be challenged to develop enhanced critical thinking abilities and advanced essay-writing skills. While course content in this stream is similar to 10-2, 20-2, and 30-2, the material is covered in much greater depth.

SOCIAL STUDIES 10-2/20-2/30-2

(5 CREDITS)

Prerequisite: Less than 65% in Social Studies 9

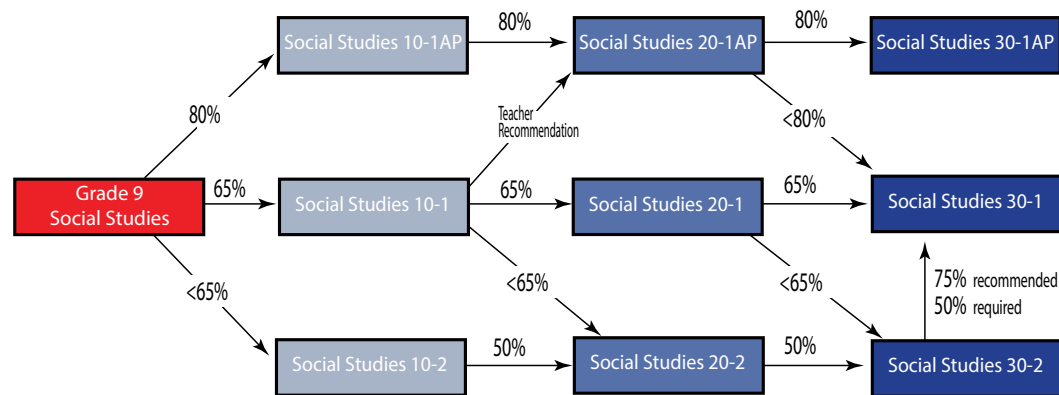
This stream enables students to obtain their high school diploma and gain the necessary pre-requisites for entry into selected post secondary programs at college, technical school, or the trades. Students in these courses will develop their critical thinking and writing skills to enable them to fully participate as citizens in the modern world.

PSYCHOLOGY 20/30

(3 CREDITS EACH)

Prerequisite: English 10-1

This academic course consists of two 3 credit courses combined. Psychology 20 is an introductory course with an emphasis on development, learning, and human behaviour. In Psychology 30 attention focuses on the scientific approach to understanding human behaviour so that students may appreciate, more fully, the reasons that underlie our actions. Students should be prepared to research and present information in written form.



Please check this link to see which sequencing fits your post-secondary aspirations prior to registering.
alis.alberta.ca

SOCIAL STUDIES



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YOUR WORLD

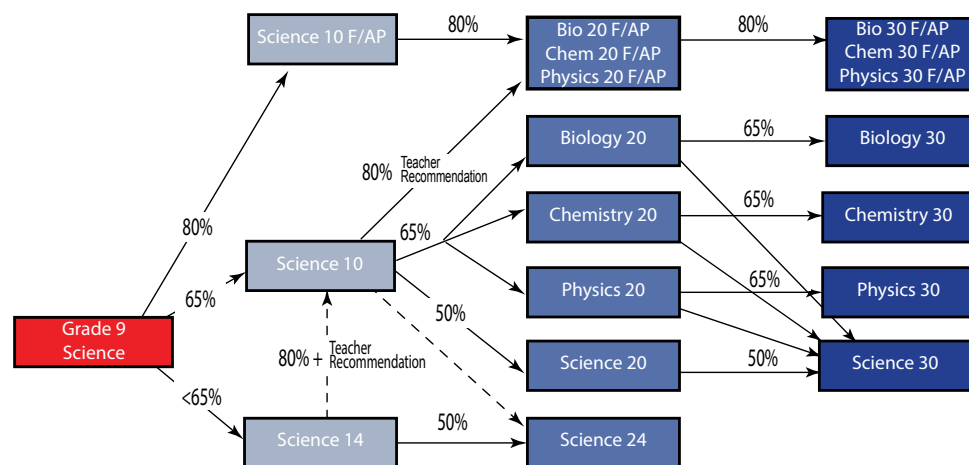
Science

SCIENCE: ACTIVE AND RIGOROUS

The Science Department at W.P. Wagner is dedicated to providing engaging work for our students. We strive to keep students active and enthusiastic about their studies. Our science rooms are big, bright, and modern. Most are also fully equipped laboratories - providing us with the flexibility to present new ideas and have students working on relevant laboratory work in short order. We believe our focus on active exploration, combined with our dedication to rigorous academics, well prepares W.P. Wagner students for their pursuits after high school.

Our commitment to providing an innovative, challenging, and active science education has helped our students achieve notable success. We are proud of our students' results - their remarkable achievement, high course completion rates, and success in admission to post secondary programs.

Students looking for an enhanced science experience should consider our Focus in Research, Science, and Technology (FIRST) program. FIRST is offered in all three core disciplines and provides a variety of benefits: field trips, curricular extensions, and a community of students with similar interests.



The most beautiful thing we can experience is the mysterious. It is the source of all true art and all science. He to whom this emotion is a stranger, who can no longer pause to wonder and stand rapt in awe, is as good as dead: his eyes are closed.

- Albert Einstein



SCIENCE COURSES

SCIENCE 10

(5 CREDITS)

Prerequisite: 65% in Science 9 or 80% in Science 14 and teacher recommendation

Science 10 lays the ground-work for all grade 11 science disciplines. Students are introduced to the areas of Biology, Chemistry, Climate, and Physics. Here, students may be active building cell models, working with chemical reactions, or using technology to study motion. These, of course, are a small sample of the many activities Science 10 students will complete.

SCIENCE 14

(5 CREDITS)

Prerequisite: Less than 65% in Science 9

Science 14 is a general course which emphasizes the applications of science. Students will be introduced to topics in Chemistry, Physics, Biology, and the Environmental Studies. In this course, students learn via hands-on activities and experiments, as well as through using technology. Some examples include building a pizza cell model, dissecting a frog, making fire with a bow drill, and researching an element.

SCIENCE 24

(5 CREDITS)

Prerequisite: 50% in Science 14

Science 24 continues the studies introduced in Science 14. The units covered in the curriculum include: Human Health, Safety and Transportation, Matter and Chemical Change, and Energy Transformations. In this course, students learn through concepts by applying the scientific process of discovery. They develop skills through activities and experiments, as well as through research. Some favourites include making soap, skin cream, edible DNA, generators, and calorimeters.

SCIENCE 20/30

(5 CREDITS)

Prerequisite: 50% in previous course

This pair of academic general science courses covers an interesting array of topics. These include the study of Biology, Chemistry, Physics, and Environment, but also Geology and Human Health. Many interesting hands-on activities help students truly understand the concepts. Science 30 can serve as an entrance requirement for many post secondary courses.

BIOLOGY 20/30

(5 CREDITS EACH)

Prerequisite: 65% in previous course

Biology is the study of living systems. This stream focuses on energy flow within the biosphere, ecosystems, body systems, and patterns of inheritance. Students will get hands-on experience by dissecting hearts and other specimens, building a urinary system, creating an endocrine body map, and conducting the dragon baby investigation, among many others.



CHEMISTRY 20/30

(5 CREDITS EACH)

Prerequisite: 65% in previous course

Chemistry is the study of properties and reactions of chemicals. This course stream focuses on bond properties, gases, solutions, thermodynamics, and equilibrium. Some of the activities students may complete include: measuring the molar mass of butane, identifying ions in solution, titrating acids, and acid/base analysis using computers and probes.

PHYSICS 20/30

(5 CREDITS)

Prerequisite: 65% in previous course

Physics is the study of motion, energy, and matter. The Alberta curriculum focuses on describing and explaining motion, waves, light, electricity, magnetism, and the composition of the atom. Activities students may complete include: traveling to West Edmonton Mall for a field study, finding images produced by lenses, and creating cartoons to explain electric charging.

GENERAL SCIENCE COURSES

INTRODUCTION TO FORENSIC SCIENCE 25/35

(3 CREDITS EACH) Prerequisite: 50% in Science 10

Forensics is the application of scientific concepts and techniques related to crime scene investigations. In this pair of courses, students may be actively collecting bugs on meat to determine time-of-death, conducting finger printing, analyzing blood splatter evidence, and investigating skeletons.

SCIENCE



science courses continued on page 28

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We Are ...

INNOVATION

Science
FIRST/AP

Science courses continued from page 27

INNOVATIVE SCIENCE PROGRAMMING

The innovative science programming offered at W.P. Wagner allows students to explore their own evolving interests.

The opportunities presented here either bring the real world into the classroom, match students with real scientists and researchers, or challenge students to achieve at a university level.



W.P. WAGNER

[school of science and technology]

"FIRST Discoveries opened my eyes to what engineering is all about and it was a lot of fun too!" – Grade 11 Student



SCIENCE

FIRST/AP SCIENCE

All students who are taking AP Science are also part of the FIRST (Focus in Research, Science, and Technology) Program. These students will receive enriched Alberta Curriculum as well as the additional AP Curriculum. Students will have additional field trips, attend special guest speaker presentations, do additional labs, study additional content, and also have access to the FIRST Mentorship Program. Please refer to page 7 for more information.

MENTORSHIP

Mentorship is a unique program that matches students with esteemed members of the scientific and research community to explore potential careers. Students and parents are invited to attend the Mentorship Information Evening to get involved. Check www.wpwagner.ebsb.ca for dates.

SCIENCE 10 FIRST/AP

(5 CREDITS)
Prerequisite: 80% in grade 9 science (See page 7)

Students seeking academic enrichment may register in the FIRST (Focus in Research, Science, and Technology) program where the emphasis is on providing challenging and meaningful enrichment opportunities in science and technology. Students in FIRST follow the regular Science 10 curriculum with a wide variety of additional opportunities to extend their learning both in and out of the classroom.

BIOLOGY 20/30 FIRST/AP

(5 CREDITS EACH)
Prerequisite: 80% in previous course

These courses, in addition to covering the Alberta Curriculum, also follow the Advanced Placement program. The extra content and laboratory work prepares students for the Biology AP exam in Grade 12. Topics that are explored include more detail in cell and plant structures, viruses and bacteria, taxonomy, and animal behaviour.

CHEMISTRY 20/30 FIRST/AP

(5 CREDITS EACH)
Prerequisite: 80% in previous course

These courses will follow the Alberta Curriculum and also provide the laboratory time and course material that will allow students in Grade 12 to write the Chemistry AP exam. Additional content will involve electron energy levels and bonding, entropy and free energy, nuclear chemistry, among other topics.

PHYSICS 20/30 FIRST/AP

(5 CREDITS EACH)
Prerequisite: 80% in previous course

These courses cover the Advanced Placement curriculum as well as the Alberta Physics 20/30 program of studies. Students taking this course will complete additional learning activities which will qualify them to write the Physics AP exam in their Grade 12 year. Other content studied will include electric circuits, planetary orbits, and electro magnetic induction.

FIRST DISCOVERIES 10

(5 CREDITS EACH) Prerequisite: 80% in Science 9, teacher recommendation and admissions to the AP/FIRST Program 10

The one-of-a-kind FIRST (Focus in Research, Science and Technology) program is an innovative enrichment program aimed at those with a genuine interest in science and technology. This course is designed for those who thrive in an accelerated classroom, are accomplished independent learners, and work well in collaborative academically challenging settings. This course is meant to provide students an opportunity to explore the classical pure streams of Science (Biology, Chemistry, and Physics) as well as engineering, computer science, and advanced technologies.

FIRST DISCOVERIES 20

(5 CREDITS EACH) Prerequisite: 80% in previous course

Students will continue in their exploration of problem solving and engineering related studies. Building hovercrafts, radios, t-shirt cannons, robots, as well as other activities will be featured in this course.



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We Are ...

CAREERS

Career
and
Technology
Studies

SKILLS FOR TOMORROW'S CAREERS

W.P. Wagner CTS programming teaches students practical skills and provides insight into a variety of career pathways. Furthermore, these courses give students an advantage in a wide variety of technical programs after high school. Whatever your path...Wagner is the school for you.



CULINARY ARTS

COOK & TRADE APPRENTICESHIP YEAR 1

Level 10 - 1 Block (5 Credits)

In year one the students will be introduced to hands on skills and abilities in the food service industry - developing efficient work habits, healthy sanitation and safety practices, and strong communication and teamwork skills.

COOK & TRADE APPRENTICESHIP YEAR 2

Level 20 - 2 Blocks (10 Credits)

In year two the students will be introduced to hands on butchery and meat cookery, further honing skills in the bakeshop and pastry, as well as producing breakfast items. Students will further their skills with communication, teamwork, safety, and sanitation.

*"The science of today is the
technology of tomorrow."*
— Edward Teller



COOK & TRADE APPRENTICESHIP YEAR 3

Students continue to develop and refine those competencies developed in the culinary service industry related to the purchasing, grading, handling, storage and preparation of food with the appropriate use of resources and food preparation techniques. Students will be able to participate in a 3-5 week workplace placement; students will focus on first year apprenticeship readying themselves for post secondary.

FOODS STUDIES

FOODS STUDIES 10/20/30

Prerequisite: 50% in previous course

Students learn useful and practical knowledge and skills in the selection, preparation, and serving of food for both the home and food service industry. As students progress through the courses, they learn about nutritional requirements for good health, various preparation techniques, and the safe and sanitary handling of food. Personal management and teamwork skills are also essential components of the classroom experience.

FASHION STUDIES

FASHION STUDIES 10/20/30

Prerequisite: 50% in previous course

Fashion Studies encourages students to explore and develop knowledge and skills in the fashion areas of production, design, and merchandising. Students learn to sew basic garments and accessories in the introductory courses and then progress into designing, pattern drafting, and creating more complex and creative garments and accessories in the intermediate and advanced courses.

HORTICULTURE

HORTICULTURE 10/20/30

Prerequisite: 50% in previous course

Our hands-on Horticulture program is a place where students develop green thumbs by learning the art and science of plant cultivation. Students become involved in the basics of greenhouse care, indoor plant care, and floral design. Our program is for anybody who has an interest in learning how to grow plants in the traditional and not so traditional sense. A variable paced, ever changing classroom, students are involved in aspects of Wagner activities all over the school by providing greenery, floral arrangements, and herbs and vegetables to other school programs. Our greenhouse is equipped with cutting edge technology including many aeroponic and hydroponic systems. LED and other supplementary sources of lights are used to maximize the growth production of our plants.

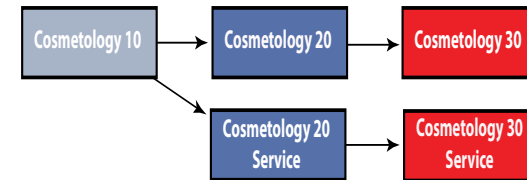
CONSTRUCTION TECHNOLOGY

CONSTRUCTION 10/20/30

Prerequisite: 50% in previous course

Do you want to explore the world of woodworking? Do you want to learn how to operate a table saw? A compound miter-saw? A jointer? A hollow chisel mortiser? The construction technology program explores the traditional hand and power tool woodworking techniques used in building cabinets and furniture. Students are mentored to increase self-confidence and independence during the construction of their woodworking projects. This is a course for future architects, engineers, project managers, developers, and future home-owners.

COSMETOLOGY



COSMETOLOGY INTEREST PROGRAM

Prerequisite: 50% in previous course

Cosmetology courses focus on the personal and professional skills needed to succeed in the beauty industry. The courses include topics in which students learn about hairstyling, skin care, make-up, nail care, cutting, colouring, and other aspects of personal and professional grooming. Career opportunities are explored and students can acquire credits/hours that are recognized by post secondary schools and the apprenticeship board.

COSMETOLOGY SERVICE PROGRAM

Prerequisite: 50% in previous course

Cosmetology Service program provides skills for students to fulfill their desire to become a licensed hair stylist. Students will learn all the fundamental skills necessary for the beauty industry in this full year program. Once students have mastered their skills, they have the opportunity to work on clients to hone their customer service skills and have an authentic salon experience.

CTS



CTS courses continued on page 32

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We Are ...

CREATIVITY

Career
and
Technology
Studies

CTS courses continued from page 31

COMPUTER TECHNOLOGY COURSES

It is highly recommended that all students complete at least one computer related course during their grade 10 year. The use of computer technology is imbedded in today's world. The same is true at W.P. Wagner, where technology is integrated throughout all programs. Familiarity with various industry-standard software programs is critical for student success. Dependent upon their junior high experience, grade 10 students have a variety of course streams from which to select from to gain new and necessary skills.

How to Earn Credits: Each class consists of five or six individual courses, each representing one credit. The first five courses are mandatory. The sixth individual course is optional.



COMMUNICATION TECHNOLOGY

COMMUNICATION TECHNOLOGY 10

Students will explore elements and principles of design through graphic tools, web design, and animation by creating digital images for print and web. This course builds a solid foundation to continue their studies into more professionally advanced applications in ComTech 20/30.

COMMUNICATION TECHNOLOGY 20

Prerequisite: 50% in previous course

Students will expand on their application of the elements and principles of design through graphic tools, web design, and animation by creating digital images for print and web. The students have projects that will allow them to continue to explore new applications. Students will gain marketable skills to take into the workplace and continue into ComTech 30.

COMMUNICATION TECHNOLOGY 30

Prerequisite: 50% in previous course

Students will build on their previous classwork to plan and create advanced images for print and web, using industry standard software. The students have projects that will allow them to continue to specialize into their areas of interest and showcase their work in the school. Upon completion of this course, students will have marketable skills to take into the work world, as a hobby, job, and/or full time career.

PHOTOGRAPHY

PHOTOGRAPHY 10/20/30

Prerequisite: 50% in previous course

Do you want to use a digital camera to help express your view of the world? Our photography program explores the science and art of photography, with an emphasis on using the camera as a communication tool. From proper usage of a digital SLR to the use of a variety of digital enhancement techniques, students will develop their own personal style of photography.

*With great power comes
great responsibility*
- Spiderman



BUSINESS & INFORMATION TECHNOLOGY

BUSINESS AND INFORMATION TECHNOLOGY 10/20/30

Prerequisite: 50% in previous course

Business and Information Technology focusses on the management, marketing, and use of electronic technologies to access, use, and manipulate information within a business context. Students are challenged to expand their confidence, experience, and skills as innovators and leaders.

YEARBOOK

YEARBOOK 10/20/30

Prerequisite: 50% in previous course

Students enrolled in Yearbook will earn work experience credits as they work together to design and produce the school yearbook. Students will develop skills and knowledge in journalism, digital photography, and desktop publishing. The class will be held outside the regular timetable throughout the year.

COMPUTER SCIENCE & VIDEO GAME DESIGN

W.P. Wagner is an Oracle Academy School, meaning that we provide certified instruction in the Java programming language. Our Computer Science courses offer students the opportunity to develop skills and knowledge that will be used to produce applications, including games, in various programming languages. Higher levels of the course build upon these fundamentals, providing experience in other programming languages and object-oriented programming. Courses at the Advanced level may be used to fulfill the Science requirement for entrance to the University of Alberta or University of Calgary.

COMPUTER SCIENCE 10

Students learn Microsoft Visual Basic.NET (VB.Net). This programming language is the next generation of Visual Basic designed to be the easiest and most productive tool for creating .NET applications including Windows applications, Web Services, and Web applications. Students are also introduced to the concepts of game design and learn how to make video games.

COMPUTER SCIENCE 10AP

In addition to the topics covered in Computer Science 10, students will be presented with an overview of what they will learn in Programming 20AP.

COMPUTER SCIENCE 20

Prerequisite: 50% in Introductory Programming 10

Students begin the study of the Java programming language. Java is found everywhere on the web and runs on all platforms, making it ideal for a wide variety of applications. Students will also start to explore the field of Robotics through the use of Arduino devices.

COMPUTER SCIENCE 20AP

Prerequisite: 50% in previous course

In addition to the topics covered in Computer Science 20, students will complete additional assignments that will help prepare them for Computer Science 30AP.

COMPUTER SCIENCE 30

Prerequisite: 50% in previous course

This course is for students who have completed Computer Science 10 and 20. Java skills are expanded through the development of graphical user interfaces in order to create games and other applications. Students will also explore programming for Android and Windows Phone mobile devices, and the Xbox gaming system.

COMPUTER SCIENCE 30AP

Prerequisite: 50% in previous course

In addition to the topics covered in Computer Science 30, students will complete further assignments using algorithms and data structures that will prepare them to write the AP Computer Science Exam.

CTS

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We Are ...

EXPRESSION

Fine
Arts

CREATIVITY AND EXPRESSION

Although W.P. Wagner School has a unique focus on science and technology, the Fine Arts Department is proud to offer opportunities to explore creativity in music, drama, and the visual arts. The Fine Arts Program at W.P. Wagner is well known in the district and province for producing high quality student work and outstanding performance ensembles.



MUSIC

W.P. Wagner's highly successful music program is a great representation of our school. Music at W.P. Wagner has something for everyone and for all abilities. Our students have the opportunity to choose a music stream that compliments their studies in academics and/or science and technology. Our program is focused on developing skills and giving

our students the opportunity to explore a wide variety of musical styles and genres. W.P. Wagner music students are encouraged to participate in extra-curricular and co-curricular music ensembles and take advantage of music enrichment opportunities provided both within Edmonton Public Schools and in the music community at large.

*Your world is a living expression of
how you are using and
have used your mind.*
- Earl Nightingale



INSTRUMENTAL MUSIC 10/20/30 (5 CREDITS EACH)

As well as emphasizing high quality performance, we explore theoretical knowledge and provide a historical survey of music through the ensemble's repertoire. Students in this component have the opportunity to participate in music camps, tours, festivals, and the annual W.P. Wagner Invitational Music Festival. Students enrolling in Music 10 must have a minimum of 2 years experience in junior high band or the equivalent instruction on a wind or percussion instrument.

BEGINNER BAND 10 (5 CREDITS)

Beginner Band 10 is an introductory course designed for students who did not have the opportunity to take band in junior high. In addition to instruction on a wind instrument, students are taught music theory (including how to read music). Students who are successful in Beginner Band 10 may be eligible to enroll in Instrumental Music 20 the following year.

Please note: students who have only had one year of experience or who cannot read music should enroll in this course instead of Instrumental Music 10.

JAZZ 15/25/35 (5 CREDITS EACH)

This performance-based study of jazz, from its creation to current day trends, offers students an introduction to improvisational skills, theoretical knowledge, and practical applications of the creative process. Students will have opportunities to perform in both a traditional big band and a small combo. Students must be enrolled in Music 10, 20, 30 (instrumental) in order to participate in this course. Students may not enroll in this course until a successful audition has been completed in September.

GENERAL MUSIC - GUITAR 10/20/30 (5 CREDITS EACH)

This full three-year program is for students who wish to take music, but who do not necessarily play traditional band instruments or sing. At the Guitar 10 level, students are introduced to a variety of picking and chording techniques, fundamental music theory, and music-reading, all while playing real songs across many styles. At the 20 and 30 levels, students continue to develop their technique, focusing on advanced barre chords, improvisation, seventh position notation, classical guitar technique, and more sophisticated strumming and picking patterns. All levels include opportunities for public performance in large class ensembles.

SYMPHONIC BAND 15/25/35 (5 CREDITS EACH)

The symphonic band is an auditioned ensemble made up of grade 10, 11, and 12 students that rehearses outside of the timetable. Students will play grade 4 and 5 band literature and be able to perform at a more challenging level. Students may not enroll in this course until a successful audition has been completed in September.



FINE ARTS



Fine arts courses continued on page 36

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Fine arts courses continued from page 35

VISUAL ARTS

W.P. Wagner boasts an outstanding art facility with an inspiring panoramic view of the adjacent ravine. Students have a chance to learn new skills and express their creativity in their choice of studio art, enriched art, or pottery.



ART 10/20/30 (5 CREDITS EACH)

Prerequisite: No prerequisite for Art 10, 50% is required to move to each new level.

Studio art courses are available to all students. These courses are suitable for any student who wants to learn about art, explore different media, and expand personal creativity. Most of the work is completed during class time through teacher and student directed projects.

ENRICHMENT AND AP OPPORTUNITIES

Prerequisite: Teacher recommendation and portfolio submission

After completion of Art 30 or Pottery 35, students who demonstrate a high degree of commitment to art and maintain the attitude and discipline of a working artist, have the opportunity to develop their portfolio for post secondary entrance. Additional opportunities may be

available to submit a portfolio in Advanced Placement for evaluation in one of three areas: 2D:Drawing or Design, and 3D.

POTTERY 15/25/35 (5 CREDITS EACH)

Prerequisite: 50% is required to move to each new level.

Ceramics is for the student who wants to work only in clay. Students will gain knowledge and skills necessary to build functional and decorative pottery using hand building and wheel building techniques. Most of the work is completed during class time through teacher and student directed projects.



DRAMA

The lights, the sound, the audience, the actors. Our W.P. Wagner Theatre Department provides every opportunity to students to be a part of this vibrant element of our school's Fine Arts community. Drama courses, full length productions, one act plays, an improv team, technical theatre, Cappies, and a fully equipped theatre are all part of the experience. Students will learn the key elements of character development, writing for the theatre, movement, improvisation, and how to become a stronger storyteller. So much of life is communication - drama offers students a way to focus, grow, and gain valuable skills that will last a lifetime.

DRAMA 10/20/30 (5 CREDITS EACH)

Prerequisite: No prerequisite for Drama 10, 50% is required to move to each new level.

The drama courses offered at W.P. Wagner provide students with a challenging opportunity to build confidence, responsibility, and communication skills. Students entering into drama will study the disciplines of movement, speech, acting, improvisation, and theatre studies in order to become stronger artists and storytellers. The program places great emphasis upon the development of the student as creator, performer, and critic in a collaborative environment. Students in drama are responsible for providing technical support at whole school events.



ADVANCED ACTING 15/25/35

Advanced Acting is a stream of courses designed to extend the foundation skills outlined in Drama 10, 20, and 30. Therefore, students are encouraged to audition to be an ensemble member in conjunction with Drama 10, 20, and 30. Course activities centre around full length productions and include character development, design, technical theatre, and performance. Advanced Acting is an opportunity that is open to all students at W.P. Wagner.

FULL LENGTH PRODUCTIONS

Throughout the year students may audition to be an ensemble member of the full length, full technical, and student run productions. This is an extension of Advanced Acting and offers a chance to perform for fellow students, teachers, and the community through matinee and evening performances right here in our very own theatre. This is your chance to be a part of something big.

W.P. WAGNER IMPROV TEAM

Improvational theatre presents another opportunity for students at W.P. Wagner to be involved in the Theatre Company. Members of the Improv Team train throughout the year on their story telling techniques in order to create original, challenging, often hilarious pieces of theatre - all made up on the spot. W.P. Wagner has long been involved in the local Improv tournaments that happen around the City of Edmonton. Join the improv team and learn how to better improvise your way through life.

ONE ACT PLAY FESTIVAL

During the school year, Grade 12 students are challenged to direct, design, and mount a one act play. These are performed by students in grade 10, 11, and 12. These shorter pieces of theatre represent a unique opportunity for a group of students to band together and create art. All shows are made public so a larger audience can see the talent at W.P. Wagner.

FINE ARTS



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GIVING OUR STUDENTS A GLOBAL ADVANTAGE

W.P. Wagner provides a number of language study opportunities that will help to develop individual potential and better prepare our students to meet the challenges of a rapidly changing world. Globalization and our diverse society have increased the need for knowledge of other languages for effective social, business, political, and recreational interaction. Working with dedicated, enthusiastic teachers, students will develop skills and knowledge that go beyond grammar and vocabulary as students take part in field trips, exchanges, and experiences that are designed to build bridges to other cultures.

W.P. Wagner offers instruction in four international languages with entry level (beginner) courses in all but French, as well as opportunities for acceleration and retroactive credit for students with prior courses or demonstrated proficiency in a particular language.

Many post secondary programs accept an international language as a subject for admission.



*"One language sets you in a corridor for life.
Two languages open every door along the way."
— Frank Smith*



FRENCH AS A SECOND LANGUAGE

FRENCH 10-9Y/20-9Y/30-9Y OR FRENCH 31a

(5 CREDITS EACH)

Prerequisite: Grade 9 FSL required for French 10-9Y, 50% is required to move to each new level. Grade 9 French Immersion is required for French 31a.

Learning French allows students to communicate with French-speaking people throughout the world, including more than 250 million people in over 55 countries/states. Students will learn about the Francophone community and its contribution in art, music, literature, science, medicine, politics, cuisine, sports, etc.

French programming at W.P. Wagner offers different points of entry based on the students' previous level of achievement. Students with previous French Immersion experience may be placed in higher level classes. Students wishing to write the French Advanced Placement Exam are encouraged to take French 31a.

JAPANESE LANGUAGE AND CULTURE

JAPANESE 10-3Y/20-3Y/30-3Y

(5 CREDITS EACH)

Prerequisite: No prerequisite for Japanese 10-3Y, 50% is required to move to each new level.

Learning Japanese as an additional language is to embark on a profound cross-cultural experience. Studying Japanese allows students to communicate with approximately 125 million people in the world. Japan is a leader in many fields, including science, technology, and medicine and it plays an important role as a world economic leader. Its culture continues to have significant impact far beyond its borders.

INTERNATIONAL LANGUAGE PROFICIENCY CREDENTIALS

Edmonton Public Schools provides students of languages other than English with access to a variety of language proficiency credentials based upon the work done internationally. (For more information, contact the Institute for Innovation in Second Language Education of Edmonton Public Schools.)

PUNJABI LANGUAGE AND CULTURE

PUNJABI 10-3Y

(5 CREDITS EACH)

Prerequisite: No prerequisite for Punjabi 10-3Y

Learning Punjabi allows students to communicate with approximately 100 million people around the world. Apart from the many advantages related to the learning of an international language, this course develops an awareness of, and sensitivity to, cultural, ethnic, and linguistic diversity. In addition to preserving cultural identity, learning Punjabi is a means of cultural enrichment. Learning Punjabi gives students the opportunity to identify, question, and challenge one's own cultural assumptions, values, and perspectives. Punjabi continues to be a rapidly growing language and culture within Alberta. For those students who already have some knowledge of Punjabi or a family connection to the culture, there is the opportunity to maintain contact with the language, culture, and heritage. For some, learning Punjabi is an opportunity to renew and further develop their first language writing and skills.

SPANISH LANGUAGE AND CULTURE

SPANISH 10-3Y/20-3Y/30-3Y

(5 CREDITS EACH)

Prerequisite: No prerequisite for Spanish 10-3Y, 50% is required to move to each new level.

Learning Spanish allows students to communicate with approximately 350 million people around the world. Apart from the common advantages related to the learning of an international language, it permits an insight into the rich and varied cultures developed in the Spanish-speaking world. Given the important economic role the Spanish-speaking countries are playing in the international market, and given their increasing trading partnership with Alberta, the learning of Spanish provides an important economic advantage.

LANGUAGES



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We Are ...

MOVEMENT

Physical
Education

PROMOTING AN ACTIVE LIFESTYLE

The aim of the physical education program at W.P. Wagner School is to enable individuals to develop the knowledge, skills, and attitudes necessary to lead an enriched active life with positive health benefits. W.P. Wagner's goal is for 100% enjoyable participation.



- football • ice activities • combative games • tennis • aquatics • softball • golf • curling
- rugby • cross-country running • individual activities • ultimate frisbee • lacrosse • team games
- outdoor pursuits • team handball • soccer • camping trips • volleyball • dance • first aid
- fitness • cross-country skiing • track & field • badminton • basketball • bowling/billiards
- wall climbing • squash/racquetball • lasertag • karate • pickleball • boxing fitness
- field hockey • fencing • scuba diving • peaceful warrior • martial arts • floor hockey

*Not all topics are covered each year but are covered through the PE 10/20/30 program.
These are just examples; there may be some additions and deletions of topics.

*Champions aren't made in the gyms.
Champions are made from something they have
deep inside them — a desire, a dream, a vision.*
- Muhammad Ali



PHYSICAL EDUCATION 10/20/30

(5 CREDITS EACH)

Prerequisite: No prerequisite for Phys. Ed. 10, 50% is required to move to each new level.

Quality Daily Physical Education Award Winner!

Physical activity is critical to leading a healthy active lifestyle and we consider physical education a very important course at W.P. Wagner. Students will acquire the knowledge, skills, and attitudes necessary to remain committed to staying active and healthy their entire lives. We offer many unique, fun, and exciting opportunities through a variety of activities.



SPORTS PERFORMANCE 15/25/35

THE SCIENCE OF SPORT AND FITNESS

(5 CREDITS EACH)

Prerequisite: No prerequisite for Sports Performance 15, 50% is required to move to each new level.

Take your interest in athletics to another level at W.P. Wagner. Sports Performance is geared to the student who wants more than just the regular courses in physical education and wants to gain insight into high level athletic performance. We look at the psychological, physiological, and nutritional elements, as well as various training techniques. We will train each athlete to become better conditioned through speed, agility, and quickness training along with strength and endurance training. Gain knowledge and learn to understand the mental and physical preparation necessary for success as a high performance athlete.



SPORTS MEDICINE 15/25/35

(5 CREDITS EACH)

Prerequisite: No prerequisite for Sports Medicine 15, 50% is required to move to each new level.

The main goal of the Sports Medicine program is to provide students with an opportunity to learn a wide variety of knowledge, skills, and attitudes regarding human anatomy, injury prevention, immediate injury care, injury assessment, and rehabilitation of athletic injuries. This course is geared towards the student who would like to work with one of the school's sports teams and be present at the games, taping athletes, assessing, and caring for injuries. Through the combination of theory and practical experience students will acquire the knowledge and skills necessary for attaining peak performance. This course is great for preparing students for programs associated with the following careers: Athletic Therapy, Physiotherapy, Medicine, Paramedic, Nursing, Chiropractic, Physical Education, Kinesiology, Personal Training, and Dentistry.

CALM

CAREER AND LIFE MANAGEMENT (CALM)

(5 CREDITS)

No prerequisite, recommended to be completed in grade 11

Alberta Education mandates that all students complete Career and Life Management in order to fulfill the requirements for a high school diploma. This course provides students with insights and skills in six key themes that relate to success in high school and in life. Units covered include self-management, well-being, relationships, investigating careers, the world of work, independent living, and human sexuality.

LIFESTYLE



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We Are ...

EXPERIENCE

Work
Experience

OFF-CAMPUS EDUCATION

Off-campus education describes the various programs which allow students to participate in work activities while attending school.

These programs involve the school, the student, and the employer in a co-operative educational effort to enhance, support, and extend the student's learning experiences.



"Both my brother and sister went to Wagner and said it was a good school, so I decided to come to Wagner too. So far, it is better than I imagined high school would be"

—W.P. Wagner student



WORK EXPERIENCE PROGRAM

Work Experience is an experiential method of learning that integrates a student's classroom studies with on-the-job experiences obtained at a qualifying business or organization. Students acquire knowledge, skills, and attitudes related to work and other valuable life roles through their participation at a placement of their choice.

THE DISTINCT ADVANTAGES OF THE WORK EXPERIENCE PROGRAM ARE:

- Work Experience is an off-timetable and off-campus course.
- Students can enter the program in any grade, including summer school.
- Students can be paid a wage or honorarium while participating in the program.
- Students can work on a volunteer basis with a sponsoring organization.
- Students can earn as many as **15 credits** towards their diploma requirements and **30 credits** towards transcripts.
- Work Experience 35 can also qualify as one of the 30 level Diploma requirements.
- Potential employers recognize the value of the Work Experience Program.
- Marks from Work Experience can be used for the Alexander Rutherford Scholarship.

Qualifying students receive supervision from the Work Experience Coordinator throughout their time in the placement and students receive training, supervision, guidance, and evaluation from the employer.

REGISTERED APPRENTICESHIP PROGRAM (RAP)

WHAT IS RAP?

The **Registered Apprenticeship Program** is a unique opportunity for students to explore a trade and begin post secondary apprenticeship training – all while completing their high school diploma.

WHO ARE THE BEST CANDIDATES FOR RAP?

All students who enjoy working with their hands or machines, value working in teams, and have an eye for detail are very well suited for RAP. Students must also be on-track to graduate, have good attendance, consistently demonstrate a strong work ethic, and have the maturity to work with adults.

BENEFITS OF RAP

Students receive **5 CTS credits for every 125 hours worked** (to a maximum of 45 credits), receive an **hourly wage** (W.P. Wagner's average earning last year was \$14,000 while in RAP), become a **registered apprentice in Alberta**, and get a **jump-start** on a possible career.

10 Steps to Becoming a RAP Student!

Step 1	Meet the Criteria
Step 2	Research & Application
Step 3	Attend Parent Information Night
Step 4	Interview with Coordinator
Step 5	Complete Employment Prep & Safety Component
Step 6	Attend Job Interview(s)
Step 7	Secure Full-time Employment
Step 8	Parent & Student Meeting
Step 9	125-hour Internship
Step 10	Register as an Apprentice (RAP) 1000 hours

NEED MORE INFORMATION ABOUT RAP?

To contact the RAP Coordinator or pick up brochures, stop by W.P. Wagner Student Services. Information is also available at www.wpwagner.epps.ca (under Off-Campus) or at www.tradesecrets.gov.ab.ca.

CAREER



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We Are ...

COMMUNITY





WE ARE #WAGNERWARRIORS

Thursday, February 18, 2016

AP/FIRST NIGHT - 7:00 pm

Highlights:

- honour/enrichment program details • mentorship details
- meet key teachers • student speakers



facebook

Wednesday, March 2, 2016

OPEN HOUSE 6:30 - 8:30 pm

Highlights:

- academic and option program displays • fine arts performance information sessions • science and technology in action • registration information



website

"It wasn't until the Wagner Open House that I made my choice of high schools. I walked into Wagner, saw how much fun people were having and felt such a positive energy that I made the choice to come to Wagner."

– W.P. Wagner student

W.P. WAGNER

[school of science and technology]

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EDMONTON PUBLIC SCHOOLS