International Baccalaureate

Guide

For Students & Parents

A Supplement to the Career Planning and Education Guide

North Kansas City School District

North Kansas City High School

2020-2021 Edition
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What is an International Baccalaureate Diploma Program?

The International Baccalaureate Diploma is a pre-university diploma, utilizing international standards, based on an integrated curriculum, infused with globalism. The diploma is an “international admissions credential.” It is offered in 3466 schools, in 146 countries. There are approximately 947 schools in the United States offering the IB Diploma. Canada has 186 schools qualified to offer the curriculum. Schools that adopt International Baccalaureate are public, private, magnet, comprehensive, international, redesigned.

The program is a rigorous course of studies, leading to examinations in six academic areas, which meet the needs of highly motivated secondary school students. Designed as a comprehensive curriculum that allows its graduates to fulfill requirements of various national education systems, the diploma model is based on the pattern of no single country but incorporates the best elements of several.

Special Features of IB DP

1) **Theory of Knowledge (TOK)** is a required interdisciplinary course intended to stimulate critical reflection upon the knowledge and experience gained inside and outside the classroom. TOK challenges students to question the bases of knowledge, to be aware of subjective and ideological biases, and to develop a personal mode of thought based on analysis of evidence expressed in rational argument. The key element in the International Baccalaureate educational philosophy, Theory of Knowledge seeks to develop a coherent approach to learning that transcends and unifies the academic subjects and encourages appreciation of other cultural perspectives.

2) **Creativity, Activity, Service** is known by its acronym CAS and is a fundamental part of the diploma curriculum. The CAS requirement takes seriously the importance of life outside the world of scholarship, providing a refreshing counterbalance to the academic self-absorption some may feel within a demanding school program. Participation in community service activities that relate to students' interests encourages young people to share their energies and special talents while developing awareness, concern, and the ability to work cooperatively with others. The goal of educating the whole person and fostering a more compassionate citizenry comes alive in an immediate way when students reach beyond themselves and their books.

3) Diploma candidates are required to undertake original research and write an Extended Essay of some 4,000 words. This project offers the opportunity to investigate a topic of special interest and acquaints students with the kind of independent research and writing skills expected at university. There are currently 36 subjects in which the essay may be written.

4) The grading system used by the International Baccalaureate Organization is criterion-referenced. This means that each student’s performance is measured against well-defined levels of achievement consistent from one examination session to the next. Top grades are not simply awarded “on a curve” to a certain percentage of candidates but rather reflect attainment of knowledge and skills relative to set standards equally applied to all schools. Validity, reliability, and fairness are the watchwords of the International Baccalaureate Organization’s international assessment strategy.
International Baccalaureate Career-related Programme (IBCP)

What is an International Baccalaureate Career-related Programme?

To prepare students for the 21st century, the International Baccalaureate has developed the IB Career-related Programme, an academic qualification designed to support schools and colleges that offer career-related courses to their students. The newest of the four IB programs, the IBCP is offered in 254 schools worldwide. There are approximately 120 schools in the United States offering the IBCP. Like the IB Diploma program, schools that adopt IBCP are public, private, magnet, comprehensive, international, redesigned.

The IBCP provides the basis for effective collaboration in the workplace, additional training in a career-related field, as well as improved mobility and flexibility in one’s employment. The IBCP offers a learning and assessment programme that promotes access to an IB education, school retention, responsibility for one’s own actions, skills development, reflection of life experiences, and self-esteem through meaningful achievements.

Special Features of IBCP

1) **Personal and Professional Skills (PPS)** is a required interdisciplinary course intended to stimulate critical reflection. With an emphasis placed primarily within the context of work, PPS promotes the development of transferable skills such as communication; critical thinking; intercultural understanding; and personal development to improve skill sets to successfully operate in the 21st century. The Personal and Professional Skills course seeks to develop a coherent approach to learning that bridges the gap between practical and knowledge skills while promoting self-awareness and cross-cultural connections.

2) **Service Learning (SL)** is a fundamental part of the IBCP curriculum. Participation in service learning activities emphasizes service learning, service as a vehicle for learning that has academic value, reflects upon the career-related studies and relates to the Reflective Project. This involvement allows young people to share their energies and talents while developing awareness, concern, and the ability to work cooperatively with others. The goal of educating the whole person and fostering a more compassionate citizenry comes alive in an immediate way when students reach beyond themselves.

3) IBCP candidates are required to undertake original research and produce a reflective work known as the **Reflective Project (RP)**. The Reflective Project can be submitted in a variety of formats such as an essay, short play, storyboard, and/or webpage and varies in length and image requirements (750 to 3,000 words, 5 to 15 images). This project offers the opportunity to investigate an ethical dilemma associated with a career-related study and acquaints students with the kind of independent research skills expected beyond high school.

4) The **Language Development (LD)** aspect allows students to expand their awareness of cultural diversity through another language. This component encourages the importance of developing knowledge and skills in a foreign language relevant to their background, context, and career-related study. With the help of their Language Development mentor, students will create an original language development portfolio in a format determined by the school.
IB Learner Profile

IB programmes aim to develop internationally minded people who are striving to become:

**Inquirers**
We nurture our curiosity, developing skills for inquiry and research. We know how to learn independently and with others. We learn with enthusiasm and sustain our love of learning throughout life.

**Knowledgeable**
We develop and use conceptual understanding, exploring knowledge across a range of disciplines. We engage with issues and ideas that have local and global significance.

**Thinkers**
We use critical and creative thinking skills to analyze and take responsible action on complex problems. We exercise initiative in making reasoned, ethical decisions.

**Communicators**
We express ourselves confidently and creatively in more than one language and in many ways. We collaborate effectively, listening carefully to the perspectives of other individuals and groups.

**Principled**
We act with integrity and honesty, with a strong sense of fairness and justice, and with respect for the dignity and rights of people everywhere. We take responsibility for our actions and their consequences.

**Open-Minded**
We critically appreciate our own cultures and personal histories, as well as the values and traditions of others. We seek and evaluate a range of points of view, and we are willing to grow from the experience.

**Caring**
We show empathy, compassion and respect. We have a commitment to service, and we act to make a positive difference in the lives of others and in the world around us.

**Risk-Takers**
We approach uncertainty with forethought and determination; we work independently and cooperatively to explore new ideas and innovative strategies. We are resourceful and resilient in the face of challenges and change.

**Balanced**
We understand the importance of balancing different aspects of our lives—intellectual, physical and emotional—to achieve well-being for ourselves and others. We recognize our interdependence with other people and with the world in which we live.

**Reflective**
We thoughtfully consider the world and our own ideas and experience. We work to understand our strengths and weaknesses in order to support our learning and personal development.
Frequently Asked Questions

Who should attempt to earn the IB Diploma or Career-related Certificate?

Students seeking the International Baccalaureate should love to learn, have a good work ethic, and should have or be willing to develop time management skills. Being motivated to work hard is the key to success in the IB Diploma or Career-related Programme.

What is NKCHS Pre-IB?

NKCHS Pre-IB is a designated version of the Honors/Challenge Program, specifically designed for freshman and sophomore students, to prepare potential IB Diploma Program or Career-related Certificate Candidates for the academic rigors of their junior and senior years.

The NKCHS Pre-IB Program is offered exclusively at North Kansas City High School. Students who intend to enter the IB Diploma Programme as juniors must enroll in designated sections of honors courses in English Language Arts, modern language, history, mathematics, and science. If a student is interested in art/design, music, or theatre arts as a sixth area, then that course sequence should begin during the freshman year also. Students who intend to enter the IB Career-related Programme as juniors must enroll in designated sections of honors courses in English Language Arts, at least two additional areas of future IB study, plus Project Lead the Way (engineering, computer science, or biomed), ProStart (culinary arts), Pre-Teaching, or Communications/Journalism.

How do I get into the NKCHS Pre-IB program?

Students who want to participate in the International Baccalaureate Diploma Programme and earn an IB Diploma should enroll as freshmen at North Kansas City High School for the NKCHS Pre-IB/Honors courses. These include: English Language Arts I, Modern Language, World History, Biology, and Mathematics. Students who intend to participate in the International Baccalaureate Career-related Programme should enroll as freshmen at North Kansas City High School in Project Lead the Way (engineering computer science, or biomed) ProStart (culinary arts), or pre-teaching plus NKCHS Pre-IB/Honors English Language Arts I and at least two additional honors areas of future IB study.

What do I do if I am supposed to attend Oak Park, Staley, or Winnetonka High Schools?

Since North Kansas City High School is the only school in the district authorized to offer the International Baccalaureate Programme, students wishing to enter must transfer to NKCHS. Students may obtain transfer forms from their counselor, the IB DP or CP Coordinators, the NKCHS building principal, or on the North Kansas City School District website. A copy is also enclosed with this guide.

What about sports? May I attend school at NKCHS and participate in sports at another high school?

No. International Baccalaureate candidates must become full students at NKCHS, including both academics and activities. Any student requesting a district transfer from Oak Park, Staley, or Winnetonka to participate in the IB Program at North Kansas City High School will enter under the Missouri State High School Activities
Association (MSHSAA) Promotion Standard. Students are immediately eligible to participate in activities/sports upon transfer to North Kansas City High School. If students choose to return to their attendance area high schools, they will have restricted eligibility for one year.

What if I change my mind and want out of the IB program?

Students may exit the IB Program after conferencing with parents, teachers, their counselor, the IBDP or IBCP Coordinator, and the principal and writing a letter explaining their reasons. Students may remain in some honors classes in pursuit of the Gold Medallion Honors Diploma. If transfer students wish to return to Oak Park, Staley, or Winnetonka, they may do so. Students who transferred to NKCHS for the program who wish to exit the program may remain at North Kansas City High School as long as they are students in good standing and provide their own transportation.

Will IB Diploma and Career-related Certificate Candidates also earn the Gold Medallion Honors Diploma?

Yes. Since the tests for the IB Diploma courses are sent all over the world to be graded, the diploma/certificate is not awarded until summer. IB students will graduate with their class, graduate with distinction, be declared IB Diploma or Career-related Certificate Candidates, and receive the Gold Medallion Honors Diploma. In pursuing the IB Diploma or Career-related Certificate, students will be considered as having met all requirements for the Gold Medallion Honors Diploma and with success of IB exams, earn a second diploma, the prestigious IB Diploma, or a second certificate, the IB Career-related Certificate.

Is there a way to take some requirements outside the traditional school day to open up the schedule?

Yes. Students may attend available extended learning in the summer to take courses such as geometry, health, physical education, or computer technology (based on availability) to meet the requirements for graduation. Students may also enroll in courses through the district's E-Campus. Students must have taken one full unit of physical education and one-half unit of health, one-half unit of personal finance as well as one unit of practical art and one unit of fine art to graduate. Since these requirements do not always fit cleanly into the IB student’s schedule, extended learning in the summer and E-Campus courses are two alternatives.

What would a typical NKCHS Pre-IB/Honors DP schedule look like?

An “example schedule” for grade 9 could be:

- NKCHS Pre-IB/Honors English Language Arts I
- NKCHS Pre-IB/Honors French II
- NKCHS Pre-IB/Honors World History
- NKCHS Pre-IB/Honors Biology
- NKCHS Pre-IB/Honors Geometry
- NKCHS Pre-IB/Honors Theatre Arts I
- Health/Physical Education
- Woodworking

An “example schedule” for grade 10 could be:

- NKCHS Pre-IB/Honors English Language Arts II
- NKCHS Pre-IB/Honors French III
- NKCHS Pre-IB/Honors US History/Government
- NKCHS Pre-IB/Honors Chemistry
- NKCHS Pre-IB/Honors Algebra II
- NKCHS Pre-IB/Honors Theatre Arts II
- Men’s Choir
- Computer Science Applications-A
What would a typical NKCHS Pre-IB/Honors IBCP schedule look like?

An “example schedule” for grade 9 could be:

- **NKCHS Pre-IB/Honors English Language Arts I**
- **NKCHS Pre-IB/Honors French I**
- **World History**
- **NKCHS Pre-IB/Honors Biology**
- **Geometry**
- **Intro to Engineering Design (PLTW)**
- **Health/Physical Education**
- **Band**

An “example schedule” for grade 10 could be:

- **NKCHS Pre-IB/Honors English Language Arts II**
- **NKCHS Pre-IB/Honors French II**
- **NKCHS Pre-IB/Honors US History/Government**
- **NKCHS Pre-IB/Honors Chemistry**
- **Algebra II**
- **Principles of Engineering Design (PLTW)**
- **Computer Applications I/Foods I**
- **Men’s Choir**

**Whom should I call with questions?**

- Dr. Jane Reed, IB Diploma Programme Coordinator—(816) 321.5967 jane.reed@nkcschools.org
- Dr. Chad Lower, IB Career-related Programme Coordinator—(816) 321.5586 chad.lower@nkcschools.org
- Mrs. Michelle Washington, IB Counselor—(816) 321.5791 michelle.washington@nkcschools.org
- Mrs. Darci Epperson, Administrative Assistant—(816) 321.4556 dacci.epperson@nkcschools.org
- Mrs. Ashley Loveall, CAS/SL Coordinator—(816) 321.5578 ashley.loveall@nkcschools.org
- Mrs. Michelle Strack, CAS/SL Coordinator—(816) 321.6218 michelle.strack@nkcschools.org
- Mr. Steve Wagner, SL/CAS Coordinator—(816) 321.6351 stephen.wagner@nkcschools.org
- Mrs. Jessica Day, IBCP Lang. Develop. Coord.—(816) 321.5604 jessica.day@nkcschools.org
- North Kansas City High School—(816) 321.5310 www.nkcschools.org/nkhs

**Where else can I go for more information?**

The International Baccalaureate Organization website, which includes university recognition information, is www.ibo.org.
IB Programme Advantages

- Internationally recognized
- World standards, not merely local, state, or national standards
- Challenging and exciting classes focusing on writing, thinking, and communicating
- Rigorous and comprehensive education based on international perspectives
- Head start on college through Theory of Knowledge/Personal and Professional Skills courses and classes based on inquiry and research
- Recognition and development of the potential of each student
- Traditional high school with extra-curricular activities
- Community involvement through business and education partnerships and participation, and a commitment of community and human welfare
- A high school with almost 100 years of excellence and tradition
- High standards of teaching required by the IB programme
- Possibility of admission to the world’s best colleges and universities
- Possibility of advanced placement in college courses
- Possibility of academic scholarships
- High expectations for students and development of full academic potential in all areas of study, including standardized testing
- Ability to compete with the best scholars in the world
International Baccalaureate DP

The Curriculum Model

International Baccalaureate curriculum planners seek to ensure that the organization’s education aims are embodied in the structure and content of the program itself. The diploma is displayed in the shape of a circle with six academic areas or subject groups concurrently, and students are exposed to the two great traditions of learning: the humanities and the sciences.

Diploma candidates are required to select one subject from each of the six subject groups that correspond to the principal domains of knowledge. At least three and not more than four are taken at higher level (HL), the others at standard level (SL). HL courses represent a recommended 240 teaching hours, SL courses 150 hours. By arranging work in this fashion, students are able to achieve depth of study in the context of a broad and coherent curriculum over the two-year period. The IB pattern is a deliberate compromise between the early specializations preferred in some national systems and the greater breadth found in others. In each area of the curriculum, care is taken to foster active citizenship and global perspectives.
International Baccalaureate IBCP

The Curriculum Model

International Baccalaureate curriculum planners seek to ensure that the organization’s education aims are embodied in the structure and content of the program itself. The IBCP model allows students to focus on a career-related pathway leading to higher education, further education, work, or apprenticeships. The program’s three-part framework comprises the study of at least three Diploma Programme courses in tandem with a chosen career-related study.

The model’s inner circle contains the distinctive IBCP core designed to connect each student’s chosen Diploma Programme courses and career-related study. For IBCP students, Diploma Programme courses provide the theoretical underpinning and academic challenge; career-related studies further support the program’s academic strength and provide practical, real-world approaches to learning; and the IBCP core helps them to develop skills and competencies required for lifelong learning.
International Baccalaureate

Course Descriptions for NKCHS Pre-IB/Honors, IB-SL, and IB-HL

Group 1 Subjects: Language A (Studies in Language and Literature)

NKCHS Pre-IB/Honors English Language Arts I
Grade: 9

NKCHS Pre-IB/Honors ELA I is the first preparatory step for students wanting to enter the Language A portion of the International Baccalaureate Diploma or Career-related Programmes. This freshman level course is designed to elevate the quality of expository, analytical, and critical writing generated by students. Students will recognize and use effectively the elements of writing; research; literature; speaking and listening; and vocabulary. Genres studied include short story, poetry, novel, and drama, as well as the epic, *The Odyssey*.

NKCHS Pre-IB/Honors English Language Arts II
Grade: 10
Prerequisite: NKCHS Pre-IB/Honors English Language Arts I

NKCHS Pre-IB/Honors ELA II is the second and final preparatory step before students enter the Language A facet of the International Baccalaureate Diploma or Career-related Programmes. This class hones the skills of literary analysis through both written and oral commentary. Genres studied include short story, poetry, novel, and drama.

IB English A: Language and Literature HL
Grades: 11-12
Prerequisite: NKCHS Pre-IB/Honors English Language Arts I & II

IB English A: Language and Literature-HL is a two-year junior/senior course emphasizing the analysis of language and analysis of literature. The course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices. The course also encourages students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in a text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. The study of literature in translation from other cultures is especially important to IB students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres and media. IB career-related programme students must take this course unless they take English A: Literature.

IB English A: Literature HL
Grades: 11-12
Prerequisite: NKCHS Pre-IB/Honors English Language Arts I & II

IB English A: Literature-HL is a two-year junior/senior course emphasizing the study of written language and literary analysis. Students will perform both written and oral assessments (internally graded by the teacher and externally graded by an IB examiner). Students will analyze, synthesize, and evaluate drama, poetry, novels, and other prose in British, American, and World literature. The course will also emphasize thematic and philosophical connections as well as differences in literary periods, styles, and contexts. IB diploma programme students must take this course. IB career-related programme students may take this course.
Group 2 Subjects: Language B (language acquisition)

NKCHS Pre-IB/Honors French I
Grade: 9

NKCHS Pre-IB/Honors French I is designed with more intensive coverage of the level I curriculum. The pace of this course is accelerated and is intended for students pursuing either the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

NKCHS Pre-IB/Honors French II
Grades: 9, 10
Prerequisite: Middle School French I or NKCHS Pre-IB/Honors French I

NKCHS Pre-IB/Honors French II is designed with more intensive coverage of the level II curriculum. The pace of this course is accelerated and is intended for students pursuing either the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

NKCHS Pre-IB/Honors French III
Grades: 10, 11
Prerequisite: NKCHS Pre-IB/Honors French II

NKCHS Pre-IB/Honors French III is designed with more intensive coverage of the level III curriculum. The pace of this course is accelerated and is intended for students pursuing either the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

IB French SL
Grades: 10, 11, 12
Prerequisite: NKCHS Pre-IB/Honors French III

IB French SL is a two-year course that prepares students for the Standard Level International Baccalaureate Exam. The emphasis of this course is communication. Students will continue to use the grammatical structures from the previous levels of study and perfect written and oral communication skills. Students sitting for the SL exam must have studied the language for at least four years. Five years of the language is strongly recommended.

IB French HL
Grades: 11-12
Prerequisite: NKCHS Pre-IB/Honors French III, and MUST have teacher approval

IB French HL is a two-year course that prepares students for the Higher Level International Baccalaureate Exam. The emphasis of this course is communication. Students will continue to use the grammatical structures from the previous four levels of study and perfect written and oral communication skills. Students sitting for the HL exam must have studied the language for five years.

NKCHS Pre-IB/Honors Spanish I
Grade: 9

NKCHS Pre-IB/Honors Spanish I is designed with more intensive coverage of the level I curriculum. The pace of this course is accelerated and is intended for students pursuing either the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

NKCHS Pre-IB/Honors Spanish II
Grades: 9, 10
Prerequisite: Middle School Spanish I or NKCHS Pre-IB/Honors Spanish I
NKCHS Pre-IB/Honors Spanish II is designed with more intensive coverage of the level II curriculum. The pace of this course is accelerated and is intended for students pursuing either the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

NKCHS Pre-IB/Honors Spanish III
Grades: 10, 11
Prerequisite: NKCHS Pre-IB/Honors Spanish II

NKCHS Pre-IB/Honors Spanish III is designed with more intensive coverage of the level III curriculum. The pace of this course is accelerated and is intended for students pursuing the International Baccalaureate Diploma.

IB Spanish SL
Grades: 11, 12
Prerequisite: NKCHS Pre-IB/Honors Spanish III

IB Spanish SL is a two-year course that prepares students for the Standard Level International Baccalaureate Exam. The emphasis of this course is communication. Students will continue to use the grammatical structures from the previous levels of study and perfect written and oral communication skills. Students sitting for the SL exam must have studied the language for at least four years. Five years of the language is strongly recommended.

IB Spanish HL
Grades: 11-12
Prerequisite: NKCHS Pre-IB/Honors Spanish III, and MUST have teacher approval

IB Spanish HL is a two-year course that prepares students for the Higher Level International Baccalaureate Exam. The emphasis of this course is communication. Students will continue to use the grammatical structures from the previous levels of study and perfect written and oral communication skills. Students sitting for the HL exam must have studied the language for five years.

Group 3 Subjects: Individuals and Societies

NKCHS Pre-IB/Honors World History
Grade: 9

NKCHS Pre-IB/Honors World History prepares students for the study of IB History by providing students with an important foundation in western culture. Because of the necessity for practice in detailed study, students will focus mostly on the development of western civilization. Students will learn to study independently, do research, take notes, make generalizations, and draw conclusions about history. Success in this course requires strong self-motivation.

NKCHS Pre-IB/Honors U.S. History II/Government
Grade: 10
Prerequisite: NKCHS Pre-IB/Honors World History

NKCHS Pre-IB/Honors U.S. History II/Government is designed for students seeking the International Baccalaureate Diploma. The first semester begins with a unit on American Government, including the development of the U.S. Constitution. The remainder of the year addresses United States history from the Reconstruction Era to the Civil Rights Movement with a reinforcement of the principles of government. This course is especially reading and writing intensive. An average of one hour per block of outside work is required to be successful in the course.

IB History SL
Grades: 11, 12
Prerequisite: NKCHS Pre-IB/Honors World History, NKCHS Pre-IB/Honors U.S. History II/Government
This is a one-year course to prepare students to test at the standard level in IB History at the end of their junior year or to continue on to IB History HL in their senior year. Twentieth century world history topics are the focus of the class. Specific areas of study include the two world wars, the Russian Revolution, the rise of totalitarian states, and the Cold War. Students are expected to read and write extensively. Classroom discussion is a major means of instruction. Students will also complete an internal assessment for the IB during this class.

**IB History HL**  
Grades: 11-12  
**Prerequisite:** NKCHS Pre-IB/Honors World History, NKCHS Pre-IB/Honors U.S. History II/Government

IB History HL is a two-year, junior/senior course designed to prepare students for the Higher Level International Baccalaureate Exam by further developing their source evaluation and historical essay writing skills. During the junior year, the course will study Authoritarian States (such as the Stalin’s Soviet Union, Hitler’s Germany, Mussolini’s Italy, Mao’s China, and Hirohito’s Japan) along with the Twentieth century wars within their rules. The senior year will focus on the History of the Middle East, analyzing the Ottoman Empire’s fall and the causes and effects of the Arab-Israeli Conflict. Students will also complete an internal assessment research paper over an historical topic of their choice.

**IB Psychology SL**  
Grades: 11, 12

IB Psychology SL is a one-year course that prepares students for the Standard Level International Baccalaureate Exam or to continue on to IB Psychology HL in their senior year. Focus will be on three traditional psychological perspectives, the biological, the cognitive, and the sociocultural perspectives. In addition, students will study one optional area of psychology chosen by the teacher. All students will complete and report on a partial replication of an experiment of their choice. Throughout the course students will focus on the development and cultural contexts, the framework, the methodologies, and the application of psychology.

**IB Psychology HL**  
Grade: 12  
**Prerequisite:** IB Psychology SL

IB Psychology HL is a one-year course that builds on material learned in SL psychology and prepares students for the Higher Level International Baccalaureate exam. The course begins with an extensive review of how to conduct experiments, which is followed by students conducting their own simple experiments. Then, the focus will be on qualitative research methodology where students will engage in the different qualitative research techniques. After qualitative research methods are studied and practiced the course focuses on Developmental Psychology. And finally the course ends with an intensive review. Throughout the course, students will focus on the development and cultural contexts, the framework, the methodologies, and the application of psychology.

**IB Social and Cultural Anthropology SL**  
Grades: 11, 12

IB Social and Cultural Anthropology SL, the comparative study of culture and human societies, is a one-year course that prepares students for the Standard Level International Baccalaureate Exam. Utilizing local and global perspectives, the course is concerned with urban as well as rural society, regional inequalities and all aspects of modern nation states. Anthropology contributes to an understanding of such contemporary issues as war and conflict, the environment, poverty, problems of injustice, inequality and human rights. Students are expected to read and think critically to be able to analyze specific anthropological themes. Class discussions are an integral part of the course, encouraging differing viewpoints. Students will also complete an internal assessment.

**IB Social and Cultural Anthropology HL**  
Grades: 11-12

IB Social and Cultural Anthropology HL, the comparative study of culture and human societies, is a two-year course that prepares students for the Higher Level International Baccalaureate Exam. HL-SCA focuses on theoretical perspectives of anthropology and the application of those theories. Utilizing local and global perspectives, the course is concerned with urban as well as rural society, regional inequalities and all aspects of modern nation.
Anthropology contributes to an understanding of such contemporary issues as war and conflict, the environment, poverty, problems of injustice, inequality and human rights. As a higher level course, students will build on their critical thinking and analytical skills through field study. Class discussions are an essential part of the course, encouraging differing viewpoints. Students will also complete an internal assessment.

Group 4 Subjects: Experimental Sciences

NKCHS Pre-IB/Honors Biology
Grade: 9

NKCHS Pre-IB/Honors Biology is a one-year course designed to prepare students for the IB/AP curriculum. Focus will be on learning to use the scientific method, write lab reports, develop study skills, organize information, analyze and answer data-based questions, higher-level thinking multiple choice questions, and well-developed essays. Core topics include biochemistry, cell biology and microscopy, cell energetics, mitosis, meiosis, genetics, ecology, evolution, microbiology, forensics, taxonomy, photosynthesis and cellular respiration. The course is hands-on lab intensive in both experimental design and prescribed labs. Students will be immersed in the research of science and application.

NKCHS Pre-IB/Honors Chemistry
Grade: 10
Prerequisites: Algebra I, NKCHS Pre-IB/Honors Biology

NKCHS Pre-IB/Honors Chemistry is a one-year course that builds the foundation for IB/AP Chemistry. Chemistry is taught with an emphasis on higher order thinking and application of major chemical principles. Topics include the nature of matter, atomic structure and theory, periodic table, bonding, chemical reactions, stoichiometry, solutions, thermodynamics, equilibrium, and acids and bases. Students will write and complete 10-15 labs that reinforce the topics discussed in class. A strong background in mathematics is encouraged before taking this course.

IB Environmental Systems and Societies SL
Grades: 11, 12
Prerequisites: NKCHS Pre-IB/Honors Biology, NKCHS Pre-IB/Honors Chemistry

IB Biology SL
Grades: 11, 12
Prerequisites: NKCHS Pre-IB/Honors Biology, NKCHS Pre-IB/Honors Chemistry

IB Biology HL-1
Grade: 11
Prerequisites: NKCHS Pre-IB/Honors Biology, NKCHS Pre-IB/Honors Chemistry
IB Biology HL-1 is the first year of a two-year lab intensive course that is designed to prepare students for the Higher Level International Baccalaureate Exam. The first year of HL biology will cover the CORE of the IB biology curriculum guide. It includes all of the standard topics: biochemistry, cells, genetics, evolution, ecology and human anatomy and physiology. Internal Assessment will comprise 40 hours, including Laboratory Investigations (20 hours), an individual research project on some topic of personal interest (10 hours) and the Group 4 Project (10 hours). This course is limited to students pursuing the International Baccalaureate Diploma.

**IB Biology HL-2**

Grade: 12  
**Prerequisites:** IB Biology HL-1

IB Biology HL-2 is the second year of a two-year course designed to prepare students for the Higher Level International Baccalaureate Exam. This advance Biology course will give students an in-depth view of the living world through learning the advanced high-level information from the IB curriculum. Course topics include more focused study of nucleic acids and proteins, plant science, advanced genetics, and advanced human health and physiology. Internal assessment will include Laboratory Investigations (20 hours). This course is limited to students pursuing the International Baccalaureate Diploma.

**IB Chemistry SL**

Grades: 11, 12  
**Prerequisites:** NKCHS Pre-IB/Honors Biology, NKCHS Pre-IB/Honors Chemistry, NKCHS Pre-IB/Honors Algebra II

IB Chemistry SL is a one-year laboratory chemistry course that covers all topics considered appropriate for an introductory college chemistry course. The principles of chemistry, such as structure, states of matter, thermochemistry, reactions, and descriptive chemistry are covered in detail. Laboratory experimentation is extensive and requires a significant time commitment by the student. The student must be highly self-motivated and possess higher order thinking skills. Adequate preparation in mathematics is essential for success in this course. This course prepares students to take the International Baccalaureate Standard Level Exam.

**IB Chemistry HL-1**

Grade: 11  
**Prerequisites:** NKCHS Pre-IB/Honors Biology, NKCHS Pre-IB/Honors Chemistry, NKCHS Pre-IB/Honors Algebra II

IB Chemistry HL-1 is the first year of a two-year laboratory course that continues and builds on topics introduced in NKCHS Pre-IB Chemistry. Topics will include core information on stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, acids/bases, and oxidation/reduction, organic chemistry, human biochemistry, and environmental chemistry. The two-year course includes 240 hours of teaching time. 180 of these hours are classroom concepts and 60 hours are Internal Assessment hours, which include 45-50 hours of investigations and 10-15 hours of an interdisciplinary project called the Group 4 project. Laboratory research and inquiry will be a prominent component of this course, requiring a significant amount of time. Students need to possess open minds, be willing to use their minds for higher level thinking exercises and meet each challenge of the course with zeal. Mathematics is an integral part of this course.

**IB Chemistry HL-2**

Grade: 12  
**Prerequisites:** IB Chemistry HL-1

IB Chemistry HL-2 is the second year of a two-year laboratory course that continues and builds on topics introduced in NKCHS Pre-IB Chemistry and IB Chemistry HL-1. Topics will include advanced information on atomic theory, periodicity, bonding, states of matter, thermochemistry, energetics, kinetics, equilibrium, acids/bases, and oxidation/reduction, organic chemistry, human biochemistry, and medicines and drugs. Laboratory research and inquiry will be a prominent component of this course, requiring a significant amount of time. Students need to possess open minds and be willing to participate in higher level thinking exercises. Mathematics is an integral part of this course.
Group 5 Subjects: Mathematics

NKCHS Pre-IB/Honors Geometry
Grades: 9, 10
Prerequisite: Algebra I

NKCHS Pre-IB/Honors Geometry is an accelerated study of plane and solid geometric figures with emphasis on plane figures. The course stresses knowledge and application of geometry as a logical system, with definitions, postulates, and theorems, especially using analysis and deductive reasoning. Lessons include work in ratio and proportion, Pythagorean theorem, areas, special triangles, volumes, and other metric work. Memorization and application is an important part of this course. This course is also writing intensive. A scientific calculator, geometric compass and protractor are suggested. This course is designed for students with advanced abilities who are pursuing the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

NKCHS Pre-IB/Honors Algebra II
Grades: 9, 10
Prerequisites: Algebra I, Middle School or NKCHS Pre-IB/Honors Geometry (previously or concurrently)

NKCHS Pre-IB/Honors Algebra II is an accelerated study that extends beginning algebraic concepts. Properties of second-degree (quadratic polynomials) functions are developed. Sample topics studied include sets, open sentences, linear equations, polynomials, factoring, rational numbers, relations, and functions, irrational numbers, and quadratics. This course is designed for highly motivated students interested in further study in mathematics, engineering, physical science, and other technical fields. A scientific calculator is recommended. Students enrolling in this course should be pursuing the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

Honors Pre-Calculus
Grades: 10, 11, 12
Prerequisites: NKCHS Pre-IB/Honors Algebra II

Honors Pre-Calculus prepares students for International Baccalaureate Exams as well as college-level courses in calculus, linear algebra, finite mathematical structures, and probability and statistics. The course is geared to students interested in mathematics, physics, chemistry, engineering, and other related technical fields. The design of the course provides students with a study of the theory and application of trigonometry, analytic geometry, exponential and logarithmic functions, vectors, sequences and series, and some concepts from calculus. Students enrolling in this course should be pursuing the International Baccalaureate Diploma or the Gold Medallion Honors Diploma.

Students who have completed both Algebra and Geometry in Middle School and who have taken NKCHS Pre-IB/Honors Algebra II as a freshman and who have the consent of the teacher may enroll in Honors Pre-Calculus as a sophomore.

IB Math: Applications and Interpretation SL-1
Grades: 10, 11, 12
Prerequisites: NKCHS Pre-IB/Honors Algebra II

IB Math: Applications and Interpretation 1 (or Honors Pre-Calculus) is the first year of preparation for the International Baccalaureate Math: Applications and Interpretation Exam as well as college-level courses in college algebra and statistics. The course is geared to students interested in non-mathematics based college degree programs that do not require Calculus. The design of the course provides students with a study of fundamental algebra, basic trigonometry, statistics & probability and functions.

IB Math: Applications and Interpretation SL-2
Grades: 11, 12
Prerequisites: IB Pre-Calculus or IB Math: Applications and Interpretation 1
IB Math: Applications and Interpretation 2 is designed to prepare students for the International Baccalaureate Math: Applications and Interpretation Standard Level Exam and to complete the mathematics portfolio requirements for IB. Topics of study include fundamental algebra, sets & logic, geometry, basic trigonometry, statistics & probability, functions, and financial mathematics.

Calculus I
Grades: 11, 12
Prerequisite: IB Pre-Calculus

Calculus I is a semester course that is an introduction to single variable calculus. Topics include limits and continuity, differentiation of elementary functions, curve sketching, extreme values, rates of change, areas, definite integrals, sequence and series, approximations, techniques of integration, numerical methods, plane curves, introduction to differential equations, and fundamental theorem of calculus. A graphing calculator (TI Nspire) with calculus functions including differentiation and integration is recommended. This course is required for students who will take the IB Math SL or HL Analysis and Approaches Exam. This course may also be taken for dual credit through Rockhurst University.

Calculus II
Grades: 11, 12
Prerequisite: IB Calculus I

Calculus II is a semester course that is a continuation of the study of Calculus. Topics in this course include relations and their graphs, ratios, proportion, variation, quadratic and quadratic form equations, theory of higher degree equations, systems of equations, inequalities, conics, determinants, progression, and binomial theorem. A graphing calculator (TI Nspire) with calculus functions including differentiation and integration is recommended. This course is required for students who will take the IB Math SL or HL Analysis and Approaches Exam.

IB Math Analysis and Approaches SL/HL
Grades: 11, 12
Prerequisites: IB Calculus I, IB Calculus II

IB Math Analysis SL/HL is a final-year course designed to prepare students for the International Baccalaureate Mathematics: Analysis and Approaches Exams (both SL and HL) and to complete the mathematics portfolio requirements for IB. Higher Level requires a two-year study, with IB Calculus I & II, being the first year. Topics of study include fundamental algebra, functions, trigonometry, vector geometry, matrices & transformations, statistics & probability, and calculus.

**Group 6 Subjects: Arts & Electives**

NKCHS Pre-IB/Honors Art/Design I
Grade: 9

NKCHS Pre-IB/Honors Art/Design I is an accelerated one-year, introductory course designed to evaluate abilities of students in technical skills, work ethic, self-motivation, and literacy in art. This course prepares freshmen for Standard Level and Higher Level IB courses. Learners will be trained in a more group-structured curriculum with an emphasis on visual awareness and perception skills through observation drawing. Basic principles and elements of design will be reviewed. Various dry media will be explored creating an acquisition of techniques to integrate into studio projects. Students will begin to explore and research artists and art history periods. A portfolio of work and research workbooks to document progress will be required. Students enrolling in this course should have a strong interest in art and should be pursuing the International Baccalaureate Diploma or the Gold Medallion Honors Diploma. Summer assignments will be required in preparation for NKCHS Pre-IB/Honors Art/Design II.
NKCHS Pre-IB/Honors Art/Design II
Grade: 10
Prerequisite: NKCHS Pre-IB/Honors Art/Design I

NKCHS Pre-IB/Honors Art/Design II, an extension of level I, is a one-year course designed for accelerated art students who are pursuing the International Baccalaureate Diploma or the Gold Medallion Diploma. The course evaluates the abilities of students in technical skills, work ethic, self-motivation, and literacy in art. Students prepare for Standard Level and Higher Level IB courses. Students will be introduced to self-structured studio and research work and continue with group-structured curriculum. Students who show superior ability in meeting the objectives of this level of the program will be encouraged to concentrate more time in self-structured studio and research work. Various wet media and 3-D media will be explored creating an acquisition of techniques to integrate into studio projects. Students will continue to explore and research artists and art history periods. A portfolio of work and research workbooks to document progress will be required, along with some commitment to, outside of school, preparing for examination years. Bookbinding and workbook creation will be introduced at the start of the course. Summer projects in relation to their portfolio theme will be required in preparation for IB Art/Design HL.

IB Art/Design SL/HL
Grades: 11-12
Prerequisites: NKCHS Pre-IB/Honors Art/Design II, Teacher Approval

IB Art Design HL/SL is a two-year, accelerated course that requires students to complete 240 hours for HL and 150 hours for SL. The course is designed for students specializing in the visual arts with creative and imaginative abilities and who may pursue the visual arts at a college or university. Course syllabus will provide requirements. Students prepare for the International Baccalaureate Higher and Standard Level Exams. While in class the IB HL and SL students will discover and explore the Visual Arts in Context (artists and why they make art), Visual Arts Methods (ways of making art) and Communicating Visual Arts (ways of presenting art). Students are expected to create a digital Process Portfolio, digital Comparative Study and series of artwork based around a particular theme of choice. HL and SL “screen” requirements vary depending on the portfolio.

NKCHS Pre-IB/Honors Theatre I
Grade: 9

NKCHS Pre-IB/Honors Theatre I is a one-year course that explores the basic elements of theatre concerning stage direction, character development, dramaturgy, stagecraft, and other technical aspects. Emphasis will be on world theatre, research, and reflection. Written and oral presentations, examinations, and projects will be the assessments used.

NKCHS Pre-IB/Honors Theatre II
Grade: 10
Prerequisite: NKCHS Pre-IB/Honors Theatre I

NKCHS Pre-IB/Honors Theatre II is a one-year course designed to further study both performance techniques and pre-production responsibilities and techniques. Emphasis will be placed on design practices and process, the historical developments in each area, world theatre, director’s vision, journal keeping, and critical analysis of productions and texts. Techniques in acting will be reinforced through period pieces from classical and contemporary texts. Theatre in historical contexts will be studied through discussions. The class also will produce a children’s theatre production to tour throughout the district.

IB Theatre HL
Grades: 11-12
Prerequisites: NKCHS Pre-IB/Honors Theatre II

IB Theatre Arts HL is a two-year course of intensive study that prepares students for the International Baccalaureate Higher Level Assessments and for further theatre studies. Students will focus on theatre in the making, theatre in performance and theatre in the world. The first year students look at devising original and theatre practices in different cultures through masks, costumes, make-up and dance. Through both years, students will be involved in practical workshops on different theatre practitioners such as Stanislavski, Artaud, Grotowski and
Boal. The second year involves studying the development of the American musical, senior exhibition shows and preparing for internal and external assessments for the International Baccalaureate Programme.

**IB Music SL**
Grades: 11-12
**Prerequisites:** Enrollment in Band, Choir or Orchestra, or special permission from the instructor. HL MUST have teacher approval.

IB Music SL is a two-year course that includes components of music theory, music history, music performance and music composition and prepares students for the IB Music Standard Level exam. This course provides an appropriate foundation for further study in music at university level or in music career pathways. It also provides an enriching and valuable course of study for students who may pursue other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participants. SL students in music are required to study musical perception. All students therefore submit a musical links investigation and also respond to a listening examination paper. SL students also choose one of three options: creating (SLC), solo performing (SLS) or group performing (SLG).

**Core Subjects**

**IB Theory of Knowledge/Research**
Grades: 11-12
**Prerequisite:** International Baccalaureate Diploma Candidate

Theory of Knowledge, capstone course of the IB curriculum, provides a nexus for the learner to synthesize the approaches to understanding gained over the course of IB study. The course raises questions about the epistemological validity of knowledge, and in so doing seeks a cross-curricular understanding of how a learner learns and, ultimately, knows. Students will pursue a wide range of readings to be examined in a Socratic Seminar setting combining literature, history, science, mathematics, fine arts, psychology, and philosophy, among others. Additionally, the two-year course will maximize preparation for standardized testing (ACT, SAT, MAP), discuss college applications and essays, develop and utilize research skills necessary for the Extended Essay, originate Creativity, Action, Service (CAS) projects, and allow for flexible, in-class grouping of students. Enrollment is limited to students who are International Baccalaureate Diploma Candidates.

**IB Personal and Professional Skills**
Grades: 11-12
**Prerequisite:** International Baccalaureate Career-related Certificate Candidate

Personal and Professional Skills, capstone course of the IBCP, provides a nexus for the learner to synthesize the approaches to understanding gained over the course of IB study. The course is designed to help students acquire transferable skills needed to successfully navigate the 21st century. This course engages students in the development of communication, critical thinking, intercultural understanding, and personal development. These components encourage self-reflection and cross-cultural connections through the themes of communities, technology, environment and workplace. Additionally, the two-year course will develop and utilize research skills necessary for the Reflective Project, initiate Service learning, create an original Language Development Portfolio related to their career-related study. Enrollment is limited to students who are International Baccalaureate Career-related Certificate Candidates.
Career-related Studies for the CP Programme

Biomedical Science

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College Principles of Biomedical Science-PLTW

Grades: 9, 10, 11, 12

Students explore the concepts of human medicine and are introduced to research processes and to bioinformatics. Hands-on projects enable students to investigate human body systems and various health conditions, including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease.

College Human Body Systems- PLTW

Grades: 9, 10, 11, 12

Prerequisite: College Principles of Biomedical Science

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real world cases, students take the role of biomedical professionals and work together to solve medical mysteries.

College Medical Interventions- PLTW

Grades: 10, 11, 12

Prerequisite: Human Body Systems

Students will investigate the variety of medical interventions involved in the prevention, diagnosis, and treatment of diseases in humans. The medical interventions will be related to the fields of Immunology, Surgery, Genetics, Pharmacology, Medical Devices, and Diagnostics. The course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail.

College Biomedical Innovation- PLTW

Grades: 10, 11, 12

Prerequisite: College Medical Interventions

Students design innovative solutions for the health challenges of the 21st century. Students will work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students will also work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

Communications/Journalism

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<td>Journalism 3 Digital Laboratory</td>
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Journalism 1
Grades: 9, 10, 11

This introductory course for work in news, editorial, and feature writing, grammar, editing, design, multi-media production, as well as media law and ethics. Students entering the course should have above average writing skills.

Journalism 1 Broadcast
Grades: 9, 10, 11

This introduction course to Journalism 2 Broadcast and Journalism 2 Sports Broadcast and is for students interested in learning how to produce a television broadcast. Students will learn hands-on techniques by being behind and in front of the camera, as well as editing techniques using professional grade software. It also covers media law and ethics as it applies to broadcasting.

Journalism 1 Photography
Grades: 9, 10, 11

This course provides instruction in all aspects of photography; students learn theories and procedures for shooting, publishing, composition, documentary photography, caption writing, as well as media law and ethics in the field of photojournalism.

Journalism 2 Broadcast
Grades: 10, 11, 12
Prerequisite: Journalism 1 Broadcast

Students will produce a live and/or recorded television newscast. They will be involved in writing and editing news and editorial copy, scheduling interviews, reporting, anchoring and editing, and finding answers to the practical, legal, and ethical questions of producing student publications.

Journalism 2 Multimedia
Grades: 10, 11, 12
Prerequisite: Journalism 1 or Journalism 1 Photography

This class publishes the school newspaper/newsmagazine (print and online publications). Students apply principles of journalism when writing news stories, features and editorials, selling ads, gathering news, conducting interviews, designing layouts, taking photos, and finding answers to the practical, legal, and ethical questions of producing student publications.

Journalism 2 Yearbook
Grades: 10, 11, 12
Prerequisite: Journalism 1 or Journalism 1 Photography

This class produces the school yearbook, a history of one school year. Students apply principles of journalistic writing, ad design, layout, graphic arts, photography, staff management, publishing, and finding answers to the practical, legal, and ethical questions of producing student publications. The yearbook requires some work in the summertime as well.

Journalism 3 Digital Laboratory
Grade: 12
Prerequisite: Journalism 2 Broadcast, Journalism 2 Multimedia, or Journalism 2 Yearbook

This course is designed as a work time for publication production and students may also explore industry certification in software and equipment, such as Adobe, NewTek, etc.
**Computer Science**

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**Computer Science Essentials-PLTW**

Grades: 9, 10, 11, 12

Computer Science Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming and text-based programming side-by-side. Finally, students learn the power of text-based programming as they are introduced to the Python programming language and the Django Framework.

**AP College Computer Science Principles-PLTW**

Grades: 10, 11, 12

**Prerequisite:**  Computer Science Essentials

In Computer Science Principles (CSP), students develop the in-demand computer science skills critical to thrive in any of today’s and tomorrow’s careers. The course promotes computational thinking and coding fundamentals and introduces computational tools that foster creativity. It aims to build students’ awareness of the tremendous demand for computer scientists and those who have computational thinking skills, and engages students to consider issues raised by the impact of computing on society. Each unit also focuses on one or more computer science-specific career paths. Computer Science Principles provides students with a broad exposure to the many aspects of computer science while encouraging creativity, socially responsible choices, and ethical behavior. It inspires algorithmic and computational thinking, helping students see themselves in a career path they might not have initially chosen.

**AP College Computer Science A-PLTW**

Grades: 11, 12

**Prerequisite:**  College Intro to Engineering Design, College Principles of Engineering, and either Digital Electronics or Civil Engineering and Architecture, AP College Cybersecurity A, or teacher recommendation.

AP Computer Science A (CSA) is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. CSA is designed with alignment to the College Board CSA framework. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

**College Cybersecurity-PLTW**

Grade: 11, 12

**Prerequisites:**  College Intro to Engineering Design, College Principles of Engineering, and either Digital Electronics or Civil Engineering and Architecture, AP College Computer Science A, or teacher recommendation.

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. This course raises students’ knowledge of and commitment to ethical computing behavior. It also develops students’ skills who can effectively contribute to communities with a dependable cyber infrastructure that moves and processes information safely.
College Engineering Design and Development-PLTW
Grade: 12
Prerequisites: College Intro to Engineering Design, College Principles of Engineering, and either Digital Electronics or Civil Engineering and Architecture, AP College Computer Science A, or teacher recommendation.

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel.

Culinary Arts

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Foods for Life
Grades: 9, 10, 11, 12

Start your year off right by learning to plan, prepare, and eat a variety of foods. In this beginning comprehensive foods class, you will become efficient at using kitchen fundamentals: proper measurements, safety and sanitation, and basic food preparations.

ProStart Foods Level 1
Grades: 10, 11, 12
Prerequisite: Foods for Life (recommended C or better)

Are you interested in starting an exciting career in the restaurant and food service industry or just advancing your skills? You will be introduced to the fundamentals of culinary arts beginning with preparatory steps for becoming a successful restaurant and food service professional. Students will learn all aspects of food safety and sanitation and the principles of professional kitchen basics, knife skills, knife cuts, and preparation techniques for stocks, soups, sauces, fruits, vegetables, and grains. Students who pass the end of the course exam for Level 1 will receive a certificate from the National Restaurant Association. Chef attire required. College credit is available through Missouri State.

ProStart Foods Level II
Grades: 11, 12
Prerequisite: ProStart Foods Level 1

Students will continue advancing skills to learn management and culinary skills toward a career in the restaurant and food service industry. Cooking principles and techniques for the preparation of breakfast food, sandwiches, salads, garnishing, meat, poultry, seafood, desserts and baked goods will be introduced. Students will learn business concepts related to the restaurant industry and will have the opportunity to do a paid internship in a food related job. Upon passing the Level II end of course exam, students will receive a certificate from the National Restaurant Association. Chef attire required. College credit is available through Missouri State.

FACS Internship
Grades: 11, 12
Prerequisite: Successful completion of entry level FACS course and teacher approval. Transportation provided by the student.

This course is used to explore culinary arts, hospitality, fashion, clothing, interior design, housing, children, families, education, or health by spending part of your day in the work world away from school with a community
professional. Working with a field site supervisor in one of these areas will familiarize you with the responsibilities and rewards of that career choice. This class may be repeated for credit.

**Pre-engineering**

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**College Intro to Engineering Design-PLTW**  
Grades: 9, 10, 11, 12  
Prerequisite: none

Students explore a wide variety of careers in engineering and technology and cover various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in the engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.

**College Principles of Engineering Design-PLTW**  
Grades: 9, 10, 11, 12  
Prerequisite: College Intro to Engineering Design

Students explore a wide variety of careers in engineering and technology and cover various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in the engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.

**College Digital Electronics-PLTW (semester course)**  
Grades: 11, 12  
Prerequisite: College Principles in Engineering

Introduces students to the interdependent fields of civil engineering and architecture; students learn project planning, site planning, and building design.

**College Civil Engineering and Architecture-PLTW (semester course)**  
Grades: 11, 12  
Prerequisite: College Intro to Engineering Design & College Principles of Engineering

Introduces students to the interdependent fields of civil engineering and architecture; students learn project planning, site planning, and building design.

**College Engineering Design and Development-PLTW**  
Grade: 12  
Prerequisite: College Intro to Engineering Design, college Principles of Engineering and either Digital Electronics or Civil Engineering and Architecture or teacher recommendation.

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professions who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel.
**Pre-teaching**

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**Child Development I (semester course)**
Grades: 9, 10, 11, 12

**Prerequisite:** none

A comprehensive program in a child’s growth and development from birth through age five. Work with children in a preschool setting. Students plan and implement all activities for a preschool lab that meets twice weekly, allowing for hands-on learning and lots of fun. Other areas of study include human reproduction, pregnancy, labor and delivery, and parenting skills.

**Child Development II (semester course)**
Grades: 9, 10, 11, 12

**Prerequisite:** Recommended grade C or better in Child Development I

This class will build an understanding of children’s growth and development and a solid foundation of skills needed when interacting with children. Students learn theories of development and growth. Units of study also include adoption, childhood diseases and immunizations, special needs, establishment of routines, sibling rivalry, toy selection, and play activities. Child Development II is a good class for anyone interested in working with children or being a parent. It also is a great foundation for students interested in psychology, sociology and human development.

**Introduction to Teaching**
Grades: 11, 12

**Prerequisite:** Recommended grade C or better in Child Development II

This course is designed to explore the skills needed to become a teacher (K-12) in the 21st century. From historical contexts to communicative/social skills, students will understand the tools needed to implement state and district curriculum, lesson plan development, and developmentally appropriate practices that will build a strong foundation for future courses, both in high school and college.

**FACS Internship**
Grades: 11, 12

**Prerequisite:** Successful completion of entry level FACS course and teacher approval. Transportation provided by the student.

Explore culinary arts, hospitality, fashion, clothing, interior design, housing, children, families, education, or health by spending part of your day in the work world away from school with a community professional. Working with a field site supervisor in one of these areas will familiarize you with the responsibilities and rewards of that career choice. This class may be repeated for credit.
### International Baccalaureate Diploma Candidate Graduation Requirements

To receive the official International Baccalaureate Diploma, the IB diploma candidate must meet the specific requirements of the IB. To graduate from the North Kansas City School District as an IB diploma candidate, the graduate must complete a minimum of 26 units of credit during grades 9-12 and meet the other listed requirements. The program consists of the following:

<table>
<thead>
<tr>
<th>COURSE DESCRIPTION</th>
<th>UNITS REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language A (studies in language and literature)</strong></td>
<td>4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors English Language Arts I, II</td>
<td></td>
</tr>
<tr>
<td>IB English A: Literature HL (two years)</td>
<td></td>
</tr>
<tr>
<td><strong>Language B (language acquisition)</strong></td>
<td>4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Language B (two years)</td>
<td></td>
</tr>
<tr>
<td>IB Language B SL or HL (two years)</td>
<td></td>
</tr>
<tr>
<td><strong>Individuals &amp; Societies</strong></td>
<td>3-4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors World History</td>
<td></td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors U.S. History II/Government</td>
<td></td>
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<tr>
<td>IB History SL or HL (one or two years)</td>
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<tr>
<td><strong>Experimental Sciences</strong></td>
<td>3-4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Biology</td>
<td></td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Chemistry</td>
<td></td>
</tr>
<tr>
<td>IB Biology, Chemistry, or Environmental Systems and Societies SL</td>
<td></td>
</tr>
<tr>
<td>IB Biology or Chemistry HL</td>
<td></td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Geometry</td>
<td></td>
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<tr>
<td>NKCHS Pre-IB/Honors Algebra II/Trigonometry</td>
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<tr>
<td>IB Pre-Calculus</td>
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<tr>
<td>IB Mathematics: Applications and Interpretation (SL)</td>
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<tr>
<td>IB Mathematics: Analysis and Approaches (HL or SL)</td>
<td></td>
</tr>
<tr>
<td><strong>Arts &amp; Electives</strong></td>
<td>1.5-4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Art/Design I, II</td>
<td></td>
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<tr>
<td>NCKHS Pre-IB/Honors Theatre Arts I, II</td>
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<tr>
<td>IB Visual Art or Theatre HL</td>
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<tr>
<td>IB Visual Art or Music SL</td>
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<tr>
<td>IB Psychology SL or HL</td>
<td></td>
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<tr>
<td>IB Social and Cultural Anthropology SL or HL</td>
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<tr>
<td>IB Language B SL (third language)</td>
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<tr>
<td>IB Biology SL or HL, Chemistry SL or HL, or Environmental Systems and Societies SL (second experimental science)</td>
<td></td>
</tr>
<tr>
<td><strong>Theory of Knowledge</strong></td>
<td>1.5-2 units</td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>Practical Arts</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>Physical Education and Health</strong></td>
<td>1.5 units</td>
</tr>
<tr>
<td><strong>Personal Finance</strong></td>
<td>.5 units</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>26+ units</td>
</tr>
</tbody>
</table>

*ALGEBRA I, GEOMETRY, AND MODERN LANGUAGE I, TAKEN IN MIDDLE SCHOOL MAY COUNT AS ADDITIONAL UNITS OF CREDIT FOR STUDENTS PURSUING THE INTERNATIONAL BACCALAUREATE DIPLOMA.*
## International Baccalaureate Career-related Candidate Graduation Requirements

To receive the official International Baccalaureate Career-related Certificate, the IB candidate must meet the specific requirements of the IB. To graduate from the North Kansas City School District as an IB Career-related Certificate candidate, the graduate must complete a minimum of 26 units of credit during grades 9-12 and meet the other listed requirements. Students must take at least two IB Diploma courses. Course listing below will be dependent on student choice of subject area. The program consists of the following:

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<thead>
<tr>
<th>COURSE DESCRIPTION</th>
<th>UNITS REQUIRED</th>
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</thead>
<tbody>
<tr>
<td><strong>English Language Arts or Language A (Pre-IB options)</strong></td>
<td>4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors English Language Arts I, II or English Language Arts I, II (two years)</td>
<td></td>
</tr>
<tr>
<td>2 Advanced ELA courses (Honors Comp &amp; Lit, AP Lang or Lit, &amp;Col English)</td>
<td></td>
</tr>
<tr>
<td>IB English A: Literature HL (two years) or Advanced English Lang Arts</td>
<td></td>
</tr>
<tr>
<td><strong>Modern Language or Language B (language acquisition)</strong></td>
<td>3 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Language B or language level I, II (two years)</td>
<td></td>
</tr>
<tr>
<td>IB Language B SL or HL (two years)</td>
<td></td>
</tr>
<tr>
<td><strong>Social Science or Individuals &amp; Societies</strong></td>
<td>3-4 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors World History or World History, NKCHS Pre-IB/Honors US History/Govt or US History II</td>
<td></td>
</tr>
<tr>
<td>American Citizenship/AP Government</td>
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<tr>
<td>1 elective: Social Studies</td>
<td></td>
</tr>
<tr>
<td>IB History SL or HL (one or two years)</td>
<td></td>
</tr>
<tr>
<td><strong>Science or Experimental Sciences</strong></td>
<td>3 units</td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Biology and Chemistry or Biology and Chemistry</td>
<td></td>
</tr>
<tr>
<td>IB Biology, Chemistry, or Env. Systems and Societies SL (one year)</td>
<td></td>
</tr>
<tr>
<td>IB Biology or Chemistry HL</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>4 units</td>
</tr>
<tr>
<td>Algebra I</td>
<td></td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Geometry or Geometry</td>
<td></td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Algebra II/Trigonometry or Algebra II/Trigonometry</td>
<td></td>
</tr>
<tr>
<td>1 credit of additional advanced math</td>
<td></td>
</tr>
<tr>
<td>IB Mathematics: Applications and Interpretation (SL)</td>
<td></td>
</tr>
<tr>
<td>IB Mathematics: Analysis and Approaches (HL or SL)</td>
<td></td>
</tr>
<tr>
<td><strong>Arts &amp; Electives</strong></td>
<td>0.5-4 units</td>
</tr>
<tr>
<td>ELA, Modern Language, Social Studies, Science, Math, Fine Arts, Practical Arts</td>
<td></td>
</tr>
<tr>
<td>NKCHS Pre-IB/Honors Art/Design I, II or Theatre Arts I, II</td>
<td></td>
</tr>
<tr>
<td>IB Music SL, IB Visual Art SL or HL, IB Theatre HL, IB Psychology SL or HL, IB Social and Cultural Anthropology SL or HL, IB Language B SL (third language), IB Biology SL or HL, IB Chemistry SL or HL, IB Environmental Systems and Societies (second experimental science) SL</td>
<td></td>
</tr>
<tr>
<td><strong>Personal and Professional Skills</strong></td>
<td>1.5-2 units</td>
</tr>
<tr>
<td><strong>Career-related Study (career pathway)</strong></td>
<td>3-4 units</td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>Practical Arts</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>Physical Education and Health</strong></td>
<td>1.5 units</td>
</tr>
<tr>
<td><strong>Personal Finance</strong></td>
<td>.5 units</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>26+ units</td>
</tr>
</tbody>
</table>

**Note:**

- **Algebra I, Geometry, and Modern Language I, taken in middle school may count as additional units of credit for students pursuing the International Baccalaureate Career-related Certificate.**
International Baccalaureate Diploma Candidate
Individualized Career Plan--EXAMPLE

<table>
<thead>
<tr>
<th>Name</th>
<th>Graduation Year</th>
<th>Today’s Date</th>
<th>Phone #</th>
<th>ID #</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
<th>Test Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NKCHS Pre-IB/Honors Eng Lang Arts I</td>
<td>NKCHS Pre-IB/Honors Eng Lang Arts II</td>
<td>IB English A: Lit HL</td>
<td>IB English A: Lit HL</td>
</tr>
<tr>
<td>2.</td>
<td>NKCHS Pre-IB/Honors Lang. B</td>
<td>NKCHS Pre-IB/Honors Lang B</td>
<td>IB Language B SL or HL</td>
<td>IB Language B SL or HL</td>
</tr>
<tr>
<td>3.</td>
<td>NKCHS Pre-IB/Honors World History</td>
<td>NKCHS Pre-IB/Honors US Hist II/Govt</td>
<td>IB History – SL or HL-1</td>
<td>IB History – HL-2</td>
</tr>
<tr>
<td>4.</td>
<td>NKCHS Pre-IB/Honors Biology</td>
<td>NKCHS Pre-IB/Honors Chemistry</td>
<td>IB Biology or Chemistry SL or HL-1, ESS SL</td>
<td>IB Biology or Chemistry SL or HL-2, ESS SL</td>
</tr>
<tr>
<td>5.</td>
<td>NKCHS Pre-IB/Honors Geometry or Algebra II</td>
<td>NKCHS Pre-IB/Honors Algebra II or Honors Pre-Calculus</td>
<td>Honors Pre-Calculus, Calculus I, II, or IB Math: Appl SL</td>
<td>IB Math: Appl or Analysis SL</td>
</tr>
<tr>
<td>6.</td>
<td>NKCHS Pre-IB/Honors 6th Area Subject I or student choice</td>
<td>NKCHS Pre-IB/Honors 6th Area Subject II, or student choice</td>
<td>IB 6th Area SL, HL or student choice</td>
<td>IB 6th Area SL, HL or student choice</td>
</tr>
<tr>
<td>7.</td>
<td>PE/Health</td>
<td>PE/Health, Practical Art or Fine Art</td>
<td>Student choice</td>
<td>Student choice</td>
</tr>
<tr>
<td>8.</td>
<td>Practical or Fine Art</td>
<td>PE/Health, Practical Art or Fine Art</td>
<td>Theory of Knowledge/Research</td>
<td>Theory of Knowledge/Research</td>
</tr>
</tbody>
</table>

IB Diploma Requirements include:

- The study of six academic areas with externally graded examination scores totaling 24 points (3 HL, 3 SL exams)
- Theory of Knowledge course
- Extended Essay (4000 words)
- Meeting Creativity, Activity, Service (CAS) learning outcomes

Student and Parent Signatures
# International Baccalaureate Career-related Certificate

## Candidate Individualized Career Plan -- EXAMPLE

<table>
<thead>
<tr>
<th>Name</th>
<th>Graduation Year</th>
<th>Today’s Date</th>
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<tbody>
<tr>
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</table>

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<tr>
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<th>12th</th>
<th>Test Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HL, SL</td>
</tr>
<tr>
<td>1.</td>
<td>NKCHS Pre-IB/Honors English Language Arts I</td>
<td>NKCHS Pre-IB/Honors English Language Arts II</td>
<td>IB English A: Lang and Lit HL</td>
<td>IB English A: Lang and Lit HL</td>
</tr>
<tr>
<td>2.</td>
<td>French I</td>
<td>French II</td>
<td>French III</td>
<td>IB History SL</td>
</tr>
<tr>
<td>3.</td>
<td>NKCHS Pre-IB/Honors World History</td>
<td>NKCHS Pre-IB/Honors US Hist II/Govt</td>
<td>IB History SL or HL-1</td>
<td>Sociology (or IB History HL-2)</td>
</tr>
<tr>
<td>4.</td>
<td>NKCHS Pre-IB/Honors Biology</td>
<td>NKCHS Pre-IB/Honors Chemistry</td>
<td>IB Biology SL</td>
<td>Leadership</td>
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<tr>
<td>5.</td>
<td>Algebra</td>
<td>Geometry</td>
<td>Algebra II</td>
<td>Pre-Calc</td>
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<tr>
<td>6.</td>
<td>Intro to Engineering Design</td>
<td>Principles of Engineering</td>
<td>Digital Engineering or Civil Engineering &amp; Architecture</td>
<td>Engineering Design &amp; Development</td>
</tr>
<tr>
<td>7.</td>
<td>Band</td>
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</tr>
<tr>
<td>8.</td>
<td>Study Hall</td>
<td>PE/Health, Practical Art or Fine Art</td>
<td>IB Personal and Professional Skills I</td>
<td>IB Personal and Professional Skills II</td>
</tr>
</tbody>
</table>

**IBCP Requirements include:**

- The study of at least 3 diploma program courses with externally graded examination scores of at least 3 points in each course taken
- Personal and Professional Skills course
- Reflective Project (750-3000 words)
- Meeting Service Learning (SL) requirements
- Completion of Language Development Portfolio

---

Student and Parent Signatures
# International Baccalaureate Diploma Candidate

## Individualized High School Plan

Name ___________________________ Graduation Year ______________

Today’s Date ______________ Phone # ______________ ID # _______________

<table>
<thead>
<tr>
<th></th>
<th>9th</th>
<th>10th</th>
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<th>12th</th>
<th>Test Level HL, SL</th>
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</thead>
<tbody>
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</tbody>
</table>

**IB Diploma Requirements include:**

- The study of six academic areas with externally graded examination scores totaling 24 points (3 HL, 3 SL exams)
- Theory of Knowledge course
- Extended Essay (4000 words)
- Meeting the Creativity, Activity, Service (CAS) learning outcomes

MIDDLE SCHOOL __________________ ATTENDANCE AREA HS________________________

Student and Parent Signatures

____________________________________________________

____________________________________________________

Teacher Signature

____________________________

MIDDLE SCHOOL __________________ ATTENDANCE AREA HS________________________
International Baccalaureate Career-related Certificate Candidate

Individualized High School Plan

Name ___________________________ Graduation Year ________________

Today's Date ____________ Phone # __________________ ID # ________________

<table>
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<tr>
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</tbody>
</table>

IBCP Requirements include:

- The study of two to four diploma program courses with externally graded examination scores of at least 3 points in each course taken
- Personal and Professional Skills course
- Reflective Project (750-3000 words)
- Meeting Service Learning (SL) requirements
- Completion of Language Development Portfolio

MIDDLE SCHOOL __________________ ATTENDANCE AREA HS _________________________

Student and Parent Signatures

_________________________________________________________________________________
North Kansas City School District

Transfer Option for International Baccalaureate Program
Transfer Request

Student’s Full Name___________________________________________________________

Student’s Full Address _______________________________________________________________________________________

DOB: _______________________________________________________________________

Middle School Attended _______________________________________________________

High School Attendance _______________________________________________________

Parent/Legal Guardian ________________________________________________________

Employer Name, Address, Phone________________________________________________

Students eligible to apply:
Students in the high school attendance areas of Oak Park High School, Staley High School and
Winnetonka High School who wish to attend North Kansas City High School in order to participate
in the International Baccalaureate Degree Program may do so by completing this form and
securing permission of both principals.

Pursuant to Board of Education policy transfers are conditioned on the following:

♦️ Student qualifies for participation in the International Baccalaureate Program.
♦️ Transfer requests should be made to the principal of the school of the attendance area where the
student resides prior to the end of the current school year.
♦️ Transfers will be approved by the principals of the sending and receiving schools.

The routing of a secondary school transfer request is as follows:

1. The parent initiates the request by completing a transfer request form at the sending school.
2. The sending school forwards the transfer request to the receiving school. The receiving principal
will note any contingency related to the transfer.
3. The receiving school reviews the request and forwards recommendations to the Office of Residency.
4. The Office of Residency notifies the parents of the disposition of the request.

Do you need district-provided transportation? Yes___________________ No__________________

Parent/Legal Guardian Signature ____________________________________ Date ______________

Sending Principal Date Receiving Principal Date

34