

# MINDDRIVE

## 2017-2018 Application Guidelines and Requirements New Student

### APPLICATION INSTRUCTIONS

In order to apply for a MINDDRIVE course you must be currently enrolled in high school between grades 9-12 and have an interest in hands-on learning. The enrollment process is simple and outlined below:

- **STEP 1**
  - Obtain a copy of the 2017-18 Application Packet.
- **STEP 2**
  - Review the Course Schedule and determine which courses/s you would like to apply for.
- **STEP 3**
  - Fill out the Commitment Application and the Authorization, sign, and **return to MINDDRIVE or your school point-of-contact**. The Application and Authorization must be signed by your parent/guardian. **REMEMBER TO INDICATE WHICH COURSES YOU ARE APPLYING FOR.**
  - As previously stated, applications can be returned to your school point-of-contact or mailed and/or delivered to:

**MINDDRIVE  
2615 HOLMES ST  
KANSAS CITY, MO 64108**

- **STEP 4 (FOR SATURDAY COURSES MDS710 & MDS610 ONLY)**
  - Schedule an interview with MINDDRIVE by contacting us directly or your school point-of-contact.
- **STEP 5**
  - A MINDDRIVE representative will contact you and your family to notify you of enrollment.

Courses are available on a first-come/first-serve basis. Our Saturday program (courses MDS710 & MDS610) is designed to be a 2-4-year program, however, freshman, sophomores, juniors, and seniors are all encouraged to apply. The program is adaptable and can be tailored to any skill level.

An interview is required only for the Saturday program (courses MDS710 & MDS610). The interview is designed to give the student an opportunity to express their interest in being apart of the MINDDRIVE core program while giving MINDDRIVE the opportunity to explain the commitment required of the student. **All students who are interested should apply!**

# MINDDRIVE



## 2017-18 COURSE OUTLINE

MINDDRIVE is excited to offer a variety of hands-on training in cutting-edge technology. Below is a description of all our current courses. You may apply for as many courses that your schedule permits. **Please keep in mind when applying that you cannot apply for two courses that are held at the same time.** However, you may apply for a Saturday course and/or a Weeknight course together.

## SATURDAY PROGRAM

### Course ID—Description

#### **MDS710—Automotive Design Studio – Saturday 9am-1pm, October 7, 2017 – May 26, 2018**

Hands-on project-based 30-week course that will expose students to metal fabrication, electric vehicle systems, steering design, braking, automotive design, rolling-resistance, robotics, synthetic molding, and much more in a mentor-based team environment. **Learn about cutting-edge technologies while working on or building electric cars!** During this upcoming year students will work to complete one of the following projects:

- Complete first **3D-printed 600lb robotic three-wheeled cycle-car you can drive.**
- Design, build, and work on **electric race cars driven by students who compete against other high schools** all over the state of Kansas in the Kansas Electrally. **Student built and student driven!**
- Complete the **restoration of a classic 1965 Chevy Corvair Corsa** convertible and install an all-electric drivetrain that includes two high-powered AC electric motors and **powered by batteries from a Tesla.**
- Complete **update of the electric drivetrain for a classic 1967 Volkswagen Karmann Ghia** to include **two high powered DC motors** and an updated extended-life CALB Lithium-Ion battery pack.

**Breakfast and Lunch provided!**

#### **MDS620—Digital Art and Design – Saturday 9am-1pm, October 7, 2017 – May 26, 2018**

Students will design, shoot, edit, draft, print, and produce digital art in meaningful ways during this 30-week mentor-assisted course. **Learn to use, design, and create** using digital tools like **Adobe Creative Suite, Drone Photography, and 3D printers.** During this course students will:

- Learn **graphic design skills to produce personal branding** as well as create marketing materials to help tell the story of MINDDRIVE.
- **Work with 3D printing technology** to create unique cutting-edge pieces and learn the basics of 3D-CAD design and additive manufacturing.
- **Plan, design, and create an art exhibit to be displayed in Crossroads Arts District** called the MINDDRIVE Art Garage.
- **Learn Photography** and use it to create unique stories.
- **Design, plan, shoot, edit, and produce a promotional video** to be published online and showcased at MINDDRIVE events.

**Breakfast and Lunch provided!**

## WEEKNIGHT COURSES

### Fall Block

Courses Offered October 10<sup>th</sup>—December 19<sup>th</sup>, 2017

#### Course ID—Description

##### **MDN530—Introduction to Welding & Fabrication - Wednesday 5-7pm**

Learn the basics of metal fabrication and begin welding in our fully-equipped welding studio. Students are introduced to and taught the various types of welding including Metal Inert Gas (MIG), Tungsten Inert Gas (TIG), and Metal Arc welding. Mentors participate along with students to design and create pieces for our annual Art Garage design showcase. Our instructor has years of experience as a professional Iron Worker and is passionate about working with young adults.

##### **MDN420—Accelerate - Tuesday 5-7pm**

Career preparation on steroids. Accelerate prepares students for success after high-school by equipping them with the tools needed to understand career exploration and planning, financial literacy, and the various skills needed to find success in the workplace or college. Accelerate invites professionals into the classroom to help students navigate the complexity of planning for a future. After students complete this 28-week program and determine which career fields align best with their passions, they are awarded with a paid summer-internship in one of their chosen career fields.

##### **MDN621—Graphic Design - Thursdays 5-7pm**

In this course, students will get hands-on experience in Adobe's Illustrator and InDesign. They will create a personal brand as well as design work typical for real world clients. Students will finish with a portfolio that includes different printing techniques, typography, vector, and raster artwork.

### Winter Block Courses

Courses Offered January 9<sup>th</sup>—March 13<sup>th</sup>, 2018

#### Course ID—Description

##### **MDN530—Introduction to Welding & Fabrication (continued) - Wednesday 5-7pm**

##### **MDN420—Accelerate (continued) - Tuesday 5-7pm**

##### **MDN110—Introduction to Robotics with Arduino - Tuesday 5-7pm**

Students will design and construct robots which are driven by a microcontroller. This course will expose them to the basics of modeling, design, planning, and control of robot systems using the Arduino open-source platform. It is designed to introduce the Arduino hardware and programming environment, and to get students started on building projects.

##### **MDN711—Automotive Design (Shop) 2.0 - Thursdays 5-7pm**

This course is for students who cannot make our Saturday program or who want to continue to develop their skills in the shop. Students will work together in small teams on projects involving electric vehicle systems, steering design, braking, and automotive design.

##### **MDN721—Drone FPV Racing - Wednesdays 5-7pm**

FPV racing is an exciting new sport that combines high-tech drones and high-speed racing. First person viewer/video (FPV) drone racing is a motorsport type where participants control "drones" (typically small radio-controlled aircraft or quadcopters), equipped with cameras while wearing head-mounted displays showing the live stream camera feed from the drones. Similar to full size air racing the goal is to complete a set course as quickly as possible. This course will introduce students to the cutting edge technology involved in drone building/racing, the science behind how it all works, and provide them access to learn and practice their drone racing skills.

**MDN623—Stop Motion Animation - Thursdays 5-7pm, January 12 - March 16**

Stop-motion animation has a long history in Hollywood, from films like *King Kong* to *Coraline*. This course will help students create their own short stop-motion films while introducing them to how stop motion works, designing concepts, lighting the environment, directing the animation, working with filters and color, video editing techniques, and much more.

**Spring Block Courses**  
**Courses Offered March 27<sup>th</sup>—May 29<sup>th</sup>, 2018**

**Course ID—Description**

**MDN530—Introduction to Welding & Fabrication (continued) - Wednesday 5-7pm**

**MDN420—Accelerate (continued) - Tuesday 5-7pm**

**MDN721—Drone FPV Racing (continued) - Wednesdays 5-7pm**

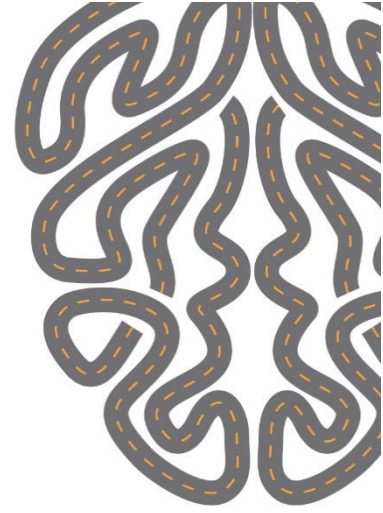
**MDN112—Programming Robotics with Raspberry Pi - Tuesday 5-7pm, January 12 - March 16**

Next level micro-controlled robotics introduces students to advanced robotics and controls. This course will expose them to the basics of python programming and linux commands. Students will design and build a robot controlled by a raspberry pi device.

**MDN624—Premier Pro Video Production - Thursdays 5-7pm, January 12 - March 16**

From beginner to advanced, this course can help students learn to create compelling video. Using the Adobe Premier Pro nonlinear editing software, students will create a video and learn capturing, editing, special effects, graphics, titles, and final production. They will also be introduced to expanded workflow, importing media, introducing music and sound effects, and creating transition.

# MINDDRIVE



## 2017-2018 Commitment Application New Student

### GENERAL INFORMATION

_____	_____	_____
Last Name	First Name	Middle Initial
____/____/____	____	____
Date of Birth (Month/Day/Year)	Age	Gender
_____	_____	_____
Address (Street)		
_____	_____	_____
City	State	Zip code
_____@_____	(____) _____	____-
Email address (Student)	Phone (Student)	
_____		
School		

### PARENT/GUARDIAN INFORMATION

_____	_____
Last Name	First Name
_____@_____	(____) _____
Email address (Parent/Guardian)	Phone (Parent/Guardian)

### EMERGENCY CONTACT (if different from Parent/Gaurdian)

_____	_____		
Contact Person Name (First, Last)	Relationship to you		
_____	_____		
Address: Street	City	State	Zip Code
Phone: (____) _____	_____		

## DEMOGRAPHIC INFORMATION

\*This information is not used to determine eligibility in any way. It is used for tracking and program reporting.

Which of the following best represents your ethnic heritage?

Black, Afro-Caribbean, or African American\_\_\_\_\_

Latino or Hispanic American\_\_\_\_\_

Middle Eastern or Arab American\_\_\_\_\_

East Asian or Asian American\_\_\_\_\_

South Asian or Indian American\_\_\_\_\_

White or Euro-American\_\_\_\_\_

Native American or Alaskan Native\_\_\_\_\_

Other\_\_\_\_\_

Is the applicant eligible for free and reduced lunch? Yes\_\_\_\_\_ No\_\_\_\_\_ Not sure\_\_\_\_\_

Does the applicant have and Individual Education Plan (IEP)? Yes\_\_\_\_\_ No\_\_\_\_\_ Not sure\_\_\_\_\_

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How will applicant get to and from MINDDRIVE?

## HEALTH INFORMATION

\*MINDDRIVE uses this information to better serve you. The more we know about you the better we accommodate you and help you achieve your goals.

Do you require any special accommodations for reading, testing, classroom work, or physical work?

Yes\_\_\_ No\_\_\_\_\_

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If yes, please describe

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Please list any Allergies or Dietary Restrictions

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Health Insurance Provider

Policy Number

## COURSE SELECTION

\*Refer to attached COURSE SCHEDULE 2017-18 for course information and indicate below which course/s you are interested in applying for (write-in the corresponding course ID number *i.e.* MDS710):

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ID NUMBER—(LIST ID OF ALL COURSES APPLYING FOR)

## SIGNATURE

I certify that the information I have given on the application is complete and correct. I understand my failure to provide complete, accurate and truthful information on the application will be grounds to deny or withdraw my admission or dismiss me after enrollment. I agree to allow the university to send information on the status of my application to my high school.

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Signature of Applicant

Printed Name

Date

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Signature of Parent/Guardian

Printed Name

Date

# MINDDRIVE

## STUDENT RELEASE & AUTHORIZATION



### GENERAL RELEASE OF LIABILITY BY MINDDRIVE

As a parent and or Guardian, I understand that the work of the MINDDRIVE classes, tours, and activities can be dangerous and can cause injury or even death to participants.

I agree to hold the MINDDRIVE organization, its staff, its board of directors, and the volunteers/mentors harmless from any injuries or death caused to my son or daughter by participation in the program.

### OUT-OF-TOWN TRAVEL.

It is understood that my child may travel to out of town events as a result of his/her participation in the program, and that such travel may require my child to stay overnight at the event for several days/nights. I understand that the Release of Liability in this Application applies to all out of town travel.

### EMERGENCY AID

If I am not immediately available, I authorize MINDDRIVE staff, mentors or volunteers to furnish and/or obtain emergency medical treatment, which may be necessary for my child during their participation in the program.

### ACCESS TO SCHOOL RECORDS

It is also understood that my child's grades, attendance, and relevant disciplinary information will be shared with MINDDRIVE by his/her school.

### PHOTOGRAPH AND VIDEO RELEASE

It is also understood that my child will be photographed and filmed during the program and events surrounding activities in conjunction with the program. These photos and videos remain the property of MINDDRIVE, Inc. as part of our documentation process and for promotional purposes, including but not limited to: blogs, press releases, website, social media, and in short or extended film versions of our program. Said films may be shown on television or in the theater and I release all claims to such photos or footage to the express use of MINDDRIVE, LLC.

As a parent or legal guardian, I agree to provide the necessary and timely transportation to enable my child to participate fully in the entire MINDDRIVE program. I agree to have my student at MINDDRIVE on time and to pick my student up on time.

By signing below, I understand that my child will be required to abide by the MINDDRIVE Code of Conduct provided for the express intent of creating a safe environment of collaboration and learning. Any breach of the MINDDRIVE Code of Conduct or act that results in an unsafe environment for the student/students may, at the discretion of MINDDRIVE personnel result in immediate dismissal from the program.

_____	_____	____/____/____
<b>Signature of Applicant</b>	<b>Printed Name</b>	<b>Date</b>
_____	_____	____/____/____
<b>Signature of Parent/Guardian</b>	<b>Printed Name</b>	<b>Date</b>