

# Beak Squad Robotics – Upper School (Grades 9-12th)

Grade Level	9-12
Purpose	<p>Students compete in the <u>FIRST Robotics Competition</u> (FRC) which boasts 4000+ teams worldwide. With a new challenge presented each January, the team has about 2 months to design, build, and program a 120lbs robot. Playing 3 v. 3 matches on a large field, FRC is dubbed “a varsity sport for the mind.” FRC provides students with hands-on, professional technological and business-minded experience.</p> <p>Thanks to dedicated adult mentors with extensive professional career experience, Team Members learn and develop skills spanning multiple skill sets including:</p> <ul style="list-style-type: none"> <li>• Mechanical (hands-on manufacturing &amp; robot assembly, includes CAD &amp; 3D printing),</li> <li>• Controls (electrical engineering; programming for operator robot controls &amp; autonomous routines)</li> <li>• Scouting &amp; Strategy (“competitive intelligence” &amp; liaison between CHCA robot drive team and competition alliance members)</li> <li>• Business &amp; Branding (communications, public relations &amp; community outreach, documentation &amp; content creation, fundraising &amp; accounting, project management, etc.)             <ul style="list-style-type: none"> <li>• Beak Squad partners with <u>CHCA’s Entrepreneurship Certification Program!</u> Contact <a href="mailto:Sarah.Hendrix@chca-oh.org">Sarah.Hendrix@chca-oh.org</a> to learn more about how joining the Beak Squad Business &amp; Branding sub team can fulfill your Internship requirement!</li> </ul> </li> </ul>
Important Dates	<p><u>Parent/Guardian Meetings:</u> 09/10/2024 – Pre-Season Parent Meeting</p> <p><u>Important Dates:</u> TBD – Ultra Camp Opens 08/29/2024 – Practices begin for 2024-2025 School Year (Ultra Camp REQUIRED to attend) 12/01/2024 –Ultra Camp closes at 11:59 p.m. 01/04/2025 – FRC KICKOFF 2025 Competition Season Mid/Late March 2025 – Regional Competitions <i>April 16-19, 2025: World Championship held in Houston, TX for qualifying teams</i> May 2025 – End-Of-Year Banquet</p>

**PRE-SEASON: AUGUST - DECEMBER**

**Practices (begin 08/29 \*\* Must be registered on Ultra Camp to attend practices)**

Mon & Thurs from 4:30 p.m. – 8:30 p.m. (Team dinner provided)

Saturdays 9:00a.m - 12:00 p.m.

*Break from Mid-December – Early January for Semester Exams & Christmas*



**COMPETITION SEASON: JANUARY - APRIL**

*Jan - Feb: Intensive six-to-eight-week robot design and build period*

*March - Early April: Regional and Championship*

*April 16-19, 2025: World Championship held in Houston, TX for qualifying teams*

**Practices**

Mon, Tues, Wed, & Thurs from 4:30 p.m. – 9:30+ p.m.\* (Team dinner provided)

Saturdays from 10:00 a.m. – 5:00+ p.m.\* (Team “brunch” & dinner provided accordingly)

\*Different roles & responsibilities require **longer** practices during Build & Competition Season.

*Break from Early May – Mid-June for Final Exams*



**SUMMER OFF-SEASON: MAY - JULY**

**Practices**

Mon & Thurs from 6:00 – 8:00 p.m.

\*Team Members encouraged to volunteer with CHCA Robotics/Tech Camps

Months

Practice Location	<p>Robotics HQ within 1 mile of campus</p> <p>*CHCA provides bus transportation from MSL to HQ after school</p>
Competition Info	<p>Two (2) Regional Competitions (often overnight travel and missing a few days of school)</p> <ul style="list-style-type: none"> <li>• Mid/late March</li> <li>• Multi-Day: Thursday through Saturday</li> <li>• Student registration via Ultra Camp by required deadlines</li> </ul> <p><i>*April 16-19, 2025: World Championship held in Houston, TX for qualifying teams</i></p> <p>1-2 Off-Season Competitions – usually in May &amp; July  1-2 Pre-Season Competitions – usually in September/October</p>
Cost	<ol style="list-style-type: none"> <li>1. CHCA Activity Fee: <ul style="list-style-type: none"> <li>• \$375 for new members; \$350 for returning members <ul style="list-style-type: none"> <li>○ Includes: (3) 2024-2025 Competition Uniform T-Shirts; Transportation from MSL to Robotics HQ for after-school practices</li> </ul> </li> </ul> </li> <li>2. Team Dinners <ul style="list-style-type: none"> <li>• Provide (2) Team Dinners during Pre-Season (approx. 25 people/meal)</li> <li>• Provide (3) Team Dinners during Competition Season (approx. 25 people/meal)</li> </ul> </li> <li>3. Competition Travel Expenses (travel, hotel, meals) <ul style="list-style-type: none"> <li>• Approx. \$300/Off-Season &amp; Pre-Season Competition</li> <li>• Approx. \$500/Regional Competition</li> <li>• Approx. \$1500 for World Championship Competition <ul style="list-style-type: none"> <li>○ Fundraising &amp; sponsorship reduces Travel Costs for the whole team</li> </ul> </li> </ul> </li> </ol> <p>** Scholarships are available to ensure that finances are never a barrier for student participation in CHCA Robotics. Contact <a href="mailto:Sarah.Hendrix@chca-oh.org">Sarah.Hendrix@chca-oh.org</a> for more information and to apply for a scholarship.</p>
Anticipated Number of Students	30 students

<p>Expected Parent Involvement</p>	<ul style="list-style-type: none"> <li>• Support Beak Squad with prayer</li> <li>• Regularly check updates via email, TeamSnap, &amp; Slack</li> <li>• Volunteer at Beak Squad hosted events</li> <li>• Provide Team Meals as outlined in the "COST" section of this document</li> <li>• Transportation when not provided by CHCA</li> <li>• Help make connections/build partnerships with potential Corporate Sponsors and Community Supporters</li> </ul> <p>Competitions are FREE and open to the public to attend - Friends &amp; Family are encouraged to come cheer for us!</p>
<p>Notes:</p>	<p>Check out the Beak Squad microsite (<a href="http://www.chca-oh.org/beaksquad">www.chca-oh.org/beaksquad</a>) for more information and regular updates</p> <p>Each year the team must raise about \$40,000 to cover basic robot costs. Funds are raised through <b>Corporate Sponsorships and Community Supporter donations</b>. Want to help? Visit our sponsorship webpage or contact <a href="mailto:Sarah.Hendrix@chca-oh.org">Sarah.Hendrix@chca-oh.org</a></p>
<p>Head Coach</p>	<p>Sarah Hendrix (<a href="mailto:Sarah.Hendrix@chca-oh.org">Sarah.Hendrix@chca-oh.org</a>)</p>
<p>Registration Steps</p>	<p><b><u>ONLY New-to-Beak-Squad:</u></b></p> <ol style="list-style-type: none"> <li>1. Contact <a href="mailto:Sarah.Hendrix@chca-oh.org">Sarah.Hendrix@chca-oh.org</a> to attend 1-2 practices as a "Shadow"</li> <li>2. Required: Signed Liability Waiver to Shadow</li> <li>3. Post-Shadow, officially join Beak Squad following the process outlined below for ALL Team Members</li> </ol> <p><b><u>Multi-Step Process for ALL Team Members</u></b></p> <ol style="list-style-type: none"> <li>1. Ultra Camp Registration <ul style="list-style-type: none"> <li>• Must be completed PRIOR to attending any practices beginning Aug 29, 2024</li> <li>• Open Registration through Deadline: 12/01/2024 at 11:59 p.m.</li> </ul> </li> <li>2. Read &amp; Sign Beak Squad Student &amp; Parent Handbooks</li> <li>3. 2024 – 2025 Student Registration with FIRST (+) Parent Connected <ul style="list-style-type: none"> <li>• Students: Complete during Pre-Season On-boarding @HQ</li> <li>• Parents/Guardians: Complete at Parent Meeting with Coach</li> </ul> </li> <li>4. Student AND Parent Connection to Communication Tools <ul style="list-style-type: none"> <li>• Connect via Mobile App "TeamSnap" – invitation sent after UltraCamp completion</li> <li>• Connect via Mobile or Desktop App "Slack" – invitation sent after UltraCamp completion</li> </ul> </li> </ol>