



2023 St. Francois County 4-H Exhibit Project and Class List



All exhibits should reflect the educational learning gained from project work. Check specific projects for exhibit guidelines.

ENGINEERING AND TECHNOLOGY

AEROSPACE

- AS811AEROSPACE 1 NOVICE
- AS812 AEROSPACE 2 INTERMEDIATE
- AS813AEROSPACE 3 ADVANCED

Project suggestions: model rocket, model airplane, identify the parts and what they do; create a display comparing birds and planes; make a display of kites and describe how they fly.

AGRICULTURAL TRACTOR

- AT820 TRACTOR 1 NOVICE
- AT821 TRACTOR 2 INTERMEDIATE
- AT822 TRACTOR 3 ADVANCED

Project suggestions: Models on principles of engine operation, hydraulic systems, safe operations, etc.

COMPUTERS and PROGRAMMING

- CP895 SCRATCH
- CP896 ALICE
- CP897 OTHER PROGRAMMING LANGUAGES or COMPUTER PROGRAMS

Project suggestions: Write a computer program, create a poster showing a website you have created, educational display of the history of computers or programming.

ELECTRICITY

Items should be made in accordance with the National Electrical Code. Consult power suppliers or electricians for code requirements. Battery operated items are also eligible items. Batteries should be disconnected or have a piece of black electrician tape placed on the ends.

- EL831 ELECTRICITY 1 NOVICE
- EL832 ELECTRICITY 2 INTERMEDIATE
- EL833 ELECTRICITY 3 ADVANCED

Project suggestions: electrical circuits, motors, electronics

ENERGY

- EG861 POWER OF THE WIND
- Project suggestions: educational displays on energy, energy transformation, energy development*

GEOSPATIAL

- GS991 GEOSPATIAL 1 NOVICE
- GS992 GEOSPATIAL 2 INTERMEDIATE
- GS993 GEOSPATIAL 3 ADVANCED

ROBOTICS

- RO881 JUNK DRAWER ROBOTS 1 NOVICE
- RO882 JUNK DRAWER ROBOTS 2 INTERMEDIATE
- RO883 JUNK DRAWER ROBOTS 3 ADVANCED
- RO884 ROBOTICS 1 WITH EV3
- RO885 ROBOTICS 2 EV3N MORE
- RO886 ADDITIONAL ROBOTICS PLATFORMS
- RO887 YOUTH ROBOTICS COMPETITION PARTNERS

Project suggestions: constructed robots, educational displays on coding, building, competition, etc.

SMALL ENGINES

- SE851 SMALL ENGINES 1 NOVICE
- SE852 SMALL ENGINES 2 INTERMEDIATE
- SE853 SMALL ENGINES 3 ADVANCED

Project suggestions: small engines for lawnmowers, model airplanes, ATVs, educational displays on motor construction, maintenance, etc.

4-H STEM CHALLENGE

- SC100 4-H STEM CHALLENGE
- Project suggestions: educational display, science experiment results, etc.*

WELDING

- WE846 WELDING
- Project suggestions: decorative items, chains, tools, etc.*

WOODWORKING

- WO871 WOODWORKING 1 NOVICE
 - WO872 WOODWORKING 2 INTERMEDIATE
 - WO873 WOODWORKING 3 ADVANCED
- Project suggestions: decorative items, small furniture, cutting boards, pens, etc.*

ENVIRONMENTAL AND NATURAL RESOURCES

AMPHIBIANS AND REPTILES

AR611 AMPHIBIANS AND REPTILES

Project suggestions: Habitat display, poster or educational display about care of animal, feeding, history, etc

ENTOMOLOGY

Boxes must be no larger than 18" long x 24" wide x 3 1/2" deep. All boxes must have a clear display lid; no open boxes allowed. The insects should be named, labeled and mounted so the boxes can be displayed horizontally. Securely fasten display cover with tape or screws. If a member's entomology collection is displayed in more than one box, the member may send only one box for display.

EN921 ENTOMOLOGY 1 NOVICE

EN922 ENTOMOLOGY 2 INTERMEDIATE

EN923 ENTOMOLOGY 3 ADVANCED

EN924 BEE KEEPING 1 NOVICE

EN925 BEE KEEPING 2 INTERMEDIATE

EN926 BEE KEEPING 3 ADVANCED

EN927 BUTTERFLY WINGS

Project suggestions: displays of native/non-native insects, educational display on insect habitat, insect management, Beekeeping supplies, honey, honeycombs, beehive box with parts labeled, educational display on butterfly species, habitat, monitoring.

EXPLORING THE ENVIRONMENT

EE914 ECOSYSTEM SERVICES

EE915 EARTH'S CAPACITY

Project suggestions: educational displays on pollution, ecosystems, natural sciences and technology

FORESTRY

FO931 FORESTRY 1 NOVICE

FO932 FORESTRY 2 INTERMEDIATE

FO933 FORESTRY 3 ADVANCED

Project suggestions: tree identification display via leaves, bark, or wood, educational display on forest habitats

GEOLOGY

Suggested box size is 18" long x 24" wide x 3 1/2" deep. All boxes must have a clear display lid; no open boxes allowed. Specimens should be named, labeled and mounted so the boxes can be displayed horizontally. Rocks need to be attached in the box securely. Securely fasten display cover with tape or screws. If a member's geology collection is displayed in more than one box, the member may send only one box for display.

GG941 GEOLOGY

Project suggestions: rock collection, educational display on geological features

OUTDOOR ADVENTURES

OA761 OUTDOOR 1 (HIKING)

OA762 OUTDOOR 2 (CAMPING)

OA763 OUTDOOR 3 (BACKPACKING)

Project suggestions: backpacking kits, hiking supplies, diagrams on pitching a tent, etc

SOIL AND WATER SCIENCE

SW916 SOIL AND WATER SCIENCE 1 NOVICE

SW917 SOIL AND WATER SCIENCE 2

INTERMEDIATE

SW918 SOIL AND WATER SCIENCE 3

ADVANCED

Project suggestions: soil sampled displays, educational displays on water quality assessment, soil health, water and soil conservation, etc.

SPORTFISHING

SF725 SPORT FISHING 1 NOVICE

SF726 SPORT FISHING 2 INTERMEDIATE

SF727 SPORT FISHING 3 ADVANCED

Project suggestions: lures, knots, flies, reels, rods, educational displays on fish identification, habitat, fishing techniques, etc.

WEATHER AND CLIMATE SCIENCE

WC934 WEATHER AND CLIMATE SCIENCE 1 NOVICE

WC935 WEATHER AND CLIMATE SCIENCE 2 INTERMEDIATE

WC936 WEATHER AND CLIMATE SCIENCE 3 ADVANCED

Project suggestions: educational displays on the water cycle, weather phenomena, ecological climate systems

WILDLIFE

WI720 WILDLIFE CONSERVATION 1
NOVICE
WI721 WILDLIFE CONSERVATION 2
INTERMEDIATE
WI722 WILDLIFE CONSERVATION 3 ADVANCED
Project suggestions: educational displays on the water cycle, weather phenomena, ecological climate systems

PLANT AND ANIMAL SCIENCE

AGRONOMY: FIELD CROPS

AG982 FIELD CROPS 1 NOVICE
AG983 FIELD CROPS 2 INTERMEDIATE
AG984 FIELD CROPS 3 ADVANCED
Project suggestions: sample of field crops, educational displays on crop growth, pest management, crop identification

BEEF

BF121 BEEF 1 NOVICE
BF122 BEEF 2 INTERMEDIATE
BF123 BEEF 3 ADVANCED
BC135 BUCKET CALF
Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

CATS

CA177 CAT CARE 1 NOVICE
CA178 CAT CARE 2 INTERMEDIATE
CA179 CAT CARE 3 ADVANCED
Project suggestions: emergency care kit, educational display of breeds, care, feed, health issues, or training

DAIRY (Also see Goats)

DA131 DAIRY 1 NOVICE
DA132 DAIRY 2 INTERMEDIATE
DA133 DAIRY 3 ADVANCED
DA134 JUDGING DAIRY CATTLE
Project suggestions: educational display, poster exhibits, rope halters, lead ropes, feed bunks, hot boxes for new born livestock hay feeders, stands for grooming items, etc.

DOGS

DG171 DOG 1 NOVICE
DG172 DOG 2 INTERMEDIATE
DG173 DOG 3 ADVANCED
Project suggestions: Educational display and poster exhibits.

GOATS

GA125 MEAT GOATS 1 NOVICE
GA126 MEAT GOATS 2 INTERMEDIATE
GA127 MEAT GOATS 3 ADVANCED
GA136 DAIRY GOATS 1 NOVICE
GA137 DAIRY GOATS 2 INTERMEDIATE
GA138 DAIRY GOATS 3 ADVANCED
Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

HORSES

HS140 HORSELESS HORSE & KNOWLEDGE
HS141 HORSE RIDING
Project suggestions: bridles, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

FLORICULTURE

Live plants or cut specimens must be displayed in a container no larger than 8" in diameter. May be fresh or dried.
HO961 FLORICULTURE 1 NOVICE
HO962 FLORICULTURE 2 INTERMEDIATE
HO963 FLORICULTURE 3 ADVANCED

GARDENING

The following guidelines should be followed:
1. Vegetables must be of reasonable quality to keep for more than a week.
2. Use disposable containers (paper plates or boxes) to transport the items.
3. Vegetables will be displayed as a large farmer's market display.
Beets (4) Cantaloupe (1) Cucumbers (slicing) (4) Egg Plant (2) Onions - dry (4) Peppers (4) Potatoes (4) Pumpkin (1) Summer Squash (2) Tomatoes (4) Watermelon (1) Winter Squash (1) Other Vegetables (1 for larger and 4 for smaller produce)
HO971 GARDENING 1 NOVICE
HO972 GARDENING 2 INTERMEDIATE
HO973 GARDENING 3 ADVANCED

LANDSCAPE DESIGN

LD975 LANDSCAPE DESIGN 1 NOVICE
LD976 LANDSCAPE DESIGN 2 INTERMEDIATE
LD977 LANDSCAPE DESIGN 3 ADVANCED

Project suggestions: floral arrangements, produce, plants, educational displays on maintaining a garden, creating arrangements design plan, educational display on selecting plants, landscaping elements, etc.

LIVESTOCK JUDGING

LJ117 LIVESTOCK JUDGING

Project suggestions: educational display on characteristics, judging, skills, giving reasons, etc.

MEATS

ME114 COUNTRY CURED BACON
ME115 COUNTRY CURED HAM
ME116 MEAT EVALUATION PROJECT

Project suggestions: country cured bacon/ham, educational displays on meat curing, quality, retail, etc.

PETS

PE101 PETS 1 NOVICE
PE102 PETS 2 INTERMEDIATE
PE103 PETS 3 ADVANCED
PE104 GUNIEA PIGS (Cavies)

Project suggestions: Educational display and poster exhibits may include, but are not limited to: health, training methods, nutrition, grooming, or breed types.

POULTRY

PO151 POULTRY 1 NOVICE
PO152 POULTRY 2 INTERMEDIATE
PO153 POULTRY 3 ADVANCED

Project suggestions: educational display of breeds, parasites, feed rations

RABBITS

RB111 RABBITS 1 NOVICE
RB112 RABBITS 2 INTERMEDIATE
RB113 RABBITS 3 ADVANCED

Project suggestions: grooming items, educational display of breeds, parasites, feed rations

SHEEP

SH161 SHEEP 1 NOVICE
SH162 SHEEP 2 INTERMEDIATE
SH163 SHEEP 3 ADVANCED

Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

SWINE

SW181 SWINE 1 NOVICE
SW182 SWINE 2 INTERMEDIATE
SW183 SWINE 3 ADVANCED

Project suggestions: educational display of breeds, parasites, feed rations

VETERINARY SCIENCE

VS191 VETERINARY SCIENCE 1 NOVICE
VS192 VETERINARY SCIENCE 2
INTERMEDIATE
VS193 VETERINARY SCIENCE 3 ADVANCED

Project suggestions: veterinary instruments, educational displays on diagnosis, treatment, prevention, etc.

LEADERSHIP AND PERSONAL DEVELOPMENT

CAREER EXPLORATIONS

CP100 CAREER EXPLORATIONS
CP200 JUNTOS
CP300 YOUTH FUTURES

Project suggestions: educational display on education, careers, a specific job

CIVIC ENGAGEMENT

CI200 CIVIC ENGAGEMENT

Project suggestions: Educational display and poster exhibits may include, but are not limited to: community service, volunteering, sportsmanship, stewardship, political action

COMMUNICATIONS

CM237 COMMUNICATIONS 1 NOVICE
CM238 COMMUNICATIONS 2 INTERMEDIATE
CM239 COMMUNICATIONS 3 ADVANCED

Project suggestions: educational display on verbal, nonverbal, unique types of communication

CONSUMER SAVVY

CS431 CONSUMER 1 NOVICE

CS432 CONSUMER 2 INTERMEDIATE

CS433 CONSUMER 3 ADVANCED

Project suggestions: Making an information chart comparing cost and value of 3 or more items related to the home.

ENTREPRENEURSHIP

EP442 ENTREPRENEURSHIP 1 NOVICE

EP443 ENTREPRENEURSHIP 2 INTERMEDIATE

EP444 ENTREPRENEURSHIP 3 ADVANCED

Project suggestions: item made as part of a small business, business plan, marketing materials

FINANCIAL LITERACY

FC421 FINANCIAL LITERACY 1

FC422 FINANCIAL LITERACY 2

Project suggestions: sample budget, educational display on goal setting, financial management plan

GLOBAL EDUCATION

GE221 GLOBAL EDUCATION

Project suggestions: items made representing other cultures, educational displays on foreign cultures, nations

LEADERSHIP

LD271 LEADERSHIP 1 NOVICE

LD272 LEADERSHIP 2 INTERMEDIATE

LD273 LEADERSHIP 3 ADVANCED

Project suggestions: educational display on facilitation techniques, leadership methods, styles, etc.

COMMUNICATION AND EXPRESSIVE ARTS

ARTS AND CRAFTS

Scrapbooking exhibits should be 1 page/1 side representative of the complete scrapbook.

1. Size not to exceed 12"x12".
2. All pages should be in clear protective sleeve or clear zipper bag.
3. Do not frame scrapbook page.
4. If more than one page is submitted for an exhibit, the exhibit will be disqualified.

AC311 ARTS AND CRAFTS

AC312 VISUAL ARTS: DRAWING, FIBER ARTS, AND SCULPTURE

AC313 VISUAL ARTS: PAINTING, PRINTING, AND GRAPHIC DESIGN

AC314 GRAPHIC DESIGN

AC315 SCRAPBOOKING

Project suggestions: Screen printing, watercolor painting, oil or acrylic painting, computer art, stenciling, calligraphy, stained glass, clay sculptures, weaving, ceramics, leather work, handmade jewelry.

CAKE DECORATING

Decorated Cakes - Cakes should not exceed 13" in height or at the base. Cake boards are considered in the 13" base requirements. The use of styrofoam forms is recommended. May only use Royal Icing, Rolled Fondant or commercial product that will harden and preserve the decorated cake. Cakes may only contain non-perishable items. They should not be real cakes, or use butter creme, soft royal icing, or tube/gel icing, or include items such as pineapple tops or real flowers.

CD361 CAKE DECORATING 1 NOVICE

CD362 CAKE DECORATING 2 INTERMEDIATE

CD363 CAKE DECORATING 3 ADVANCED

CLOTHING

Be sure to double tag all clothing items.

CL521 SEWING 1 NOVICE

CL522 SEWING 2 INTERMEDIATE

CL523 SEWING 3 ADVANCED

CL524 SHOPPING IN STYLE

CLOWNING

CW231 CLOWNING

Project suggestions: Make-up display, costume, poster or educational display of clowning history, famous clowns, etc.

CROCHET

CR321 CROCHET

Project suggestions: Garment, accessory or home goods item. Hat, gloves, hot pad, sweater, blanket, etc.

FILMMAKING

FM270 FILMMAKING

Project suggestions: educational display on making a film, set design, directing

INTERIOR DESIGN

ID471 INTERIOR DESIGN 1 NOVICE

ID 472 INTERIOR DESIGN 2 INTERMEDIATE

ID 473 INTERIOR DESIGN 3 ADVANCED

Project suggestions: interior design plans/examples

KNITTING

KN331 KNITTING

Project suggestions: Garment, accessory or home goods item. Hat, gloves, hot pad, sweater, blanket, etc.

PHOTOGRAPHY

REQUIREMENTS:

1. Photos must be mounted on a rectangular 8" x 10" solid mounting surface.
2. The preferred surface is matte board. Can be in a color of the photographer's choice.
3. Photographs must be 8" x 10" or smaller, with no more than four photos per mat board.
4. The mounted photo should be placed in a clear plastic 8 ¼ x 10 ½ inch sleeve.

DIGITAL EDITING RULES

For State Fair 4-H photography exhibits, certain types of editing are permissible and others are not.

1. Altering (editing to change the contents of) a photo is not permitted for State Fair exhibits.
 - Examples include adding a sunset or object, removing someone from the shot, airbrushing to cover a bad complexion, giving a photo subject dinosaur eyes, etc.
2. Enhancing (editing to improve the existing qualities of) a photo is permitted.
 - Examples include cropping the photo, eliminating redden and changing levels of saturation, brightness, contrast, etc.

PH351 PHOTOGRAPHY 1 NOVICE

PH352 PHOTOGRAPHY 2 INTERMEDIATE

PH353 PHOTOGRAPHY 3 ADVANCED

PUBLIC SPEAKING

PS242 PUBLIC SPEAKING

Project suggestions: educational display on elements of speaking such as tone, appearance, posture, etc.

QUILTING

QU341 QUILTING 1 NOVICE

QU342 QUILTING 2 INTERMEDIATE

QU343 QUILTING 3 ADVANCED

Project suggestions: children's quilt, bed quilt, pot holders, coasters, etc.

THEATRE ARTS

TA251 THEATRE ARTS 1 NOVICE

TA252 THEATRE ARTS 2 INTERMEDIATE

TA253 THEATRE ARTS 3 ADVANCED

Project suggestions: costume, props, educational displays on theatre performance

HEALTHY LIVING

FOODS/NUTRITION

1. Food must be of reasonable quality to keep for more than a week. Do not exhibit food items which will spoil quickly such as casseroles, pizza, cream pies, items made with cream cheese, etc.
2. Submit food items on disposable plates, clear, plastic plates. Plastic wrap will be removed so drying of the food will extend display life of the product. Food items will be displayed with their tags. Please do not send expensive or keepsake containers!
3. No samples or recipes are needed with any food items.
4. Perishable food items will need a second identification label. Perishable food items will be displayed with their tags.
5. Biscuits, cookies, muffins and other small items should be four per plate. Non/Undecorated cakes should be displayed in mini-versions (portions of 1/3 to 1/4 of a larger total product.) A representative sample of each will be displayed.

FP500 FREEZING

FP501 DRYING

FP502 BOILING WATER CANNING

FP503 PRESSURE CANNING

FN551 FOODS 1 NOVICE

FN552 FOODS 2 INTERMEDIATE

FN553 FOODS 3 ADVANCED

FN557 INTERNATIONAL FOODS 1

FS566 FOOD SCIENCE 1 NOVICE

FS567 FOOD SCIENCE 2 INTERMEDIATE

FS568 FOOD SCIENCE 3 ADVANCED

FN581 BREADS

HEALTH/FITNESS

HF711 BOWLING

HF712 GOLF

HF713 SQUARE DANCING

BY731 BICYCLE 1

BY732 BICYCLE 2

HF771 FIRST AID

HF772 STAYING HEALTHY

HF773 KEEPING FIT

HF774 PHYSICAL ACTIVITY IN 4-H CLUBS

HF775 MOVE ACROSS MISSOURI (MOVE)

Project suggestions: healthy living kits, education displays on sportsmanship, health, exercise, poster with bicycle parts labeled, bike safety suggestions, benefits of bicycling

SHOOTING SPORTS

SHOOTING SPORTS

No live ammunition and arrow points should be removed.

SS740 SHOOTING SPORTS SAFETY

SS741 ARCHERY

SS742 AIR (BB and/or Pellet) RIFLE

SS743 SMALLBORE RIFLE

SS744 AIR PISTOL

SS745 SHOTGUN

SS747 SMALLBORE PISTOL

SS748 MUZZLELOADING

SS749 HUNTING AND OUTDOOR SKILLS

SS750 WESTERN HERITAGE & COWBOY SHOOTING

Project suggestions: targets, holsters, educational displays on safety or skills in given disciplines, etc.

EXPLORING 4-H

EXPLORING 4-H

EX261 EXPORING 4-H

SELF DETERMINED

SELF DETERMINED

SD 950 SELF-DETERMINED – Citizenship, Leadership, Communication

SD 951 SELF-DETERMINED – Healthy Living

SD 952 SELF-DETERMINED – Science

State Fair 4-H Building Guidelines

Entries selected to represent St. Francois County at the Missouri State Fair must follow these guidelines set by Missouri 4-H.

1. Items made by 4-H members should reflect the skills they have learned in their 4-H project, the needs and interests of the 4-H'er, and quality workmanship. Use the 4-H project literature, "Clover", and suggestions listed in this guide for ideas. Any 4-H member of an organized club in a defined delivery mode and who is enrolled in an individual project may exhibit at the state level. **2.** 4-H members may display only in projects in which they are enrolled in the current 4-H year. Items must be made in the current year and must be the work of the 4-H member submitting the item. **3.** Items must be of blue-ribbon quality. **4.** Items are displayed at the risk of the 4-H member. The 4-H staff, Extension Centers and Missouri State Fair are not responsible for loss or damage to items. Building staff do make ongoing efforts

to protect all projects while they are physically in the State 4-H Building, including strategies to keep fairgoers from touching items (e.g. chain barriers and "Do not touch the projects" announcements). **5.** A member is limited to two items and one demonstration in the 4-H Building. **6.** All 4-H Building items must be registered on the Missouri State Fair voucher computer program. Special instructions for the preparation of these vouchers will be provided to 4-H staff. **7.** The 4-H member's region, county and name should be permanently affixed to the following items. These items will be accepted from any project. *Notebook – Youth should select 1 page that represents their notebook. The page should be in a plastic sleeve to protect it while on display. No exhibits to be displayed in binders, folders, or notebooks will be accepted. *Posters – no larger than 14" X 22", flat, poster board only (no foam board), 3D items shall not be more than 1/8" above the surface of the poster board. No more than 6 posters per county. Counties may request an extension on this limit to be approved by the building superintendents. *Photo albums - No projects displayed in photo albums will be accepted. *Cookbooks - Youth should select 1 page that represents their cookbook. The page should be in a plastic sleeve to protect it while on display. **8.** All exhibits should reflect the educational learning gained from project work. This includes notebook pages, file cards, photo displays, posters, or educational displays. Be sure to mark the exhibit tag with Project number and description. Size restrictions may apply. See additional information in Rule #9. **9.** Because of display space, available cases and number of exhibits in certain projects, dimension criteria is specified. Educational displays should not exceed 12 inches in height, 12 inches in depth, and 14 inches in width. Can include three-dimensional items and must be free standing. Working models - These exhibits should show how things actually work or can be used to help people identify parts, such as those of a motor or engine. Working models should require floor space no larger than 24" x 24". **10.** Perishable items such as food, vegetables, crops and home grown items will not be returned after the Fair. **11.** Fire Hazard Prevention: Any exhibits using batteries, such as circuit boards or robots should not connect the wires to the battery; rather the wires should be taped behind the battery. **12.** All 4-H Building items must be checked in and out of the 4-H Building by State Fair 4-H personnel during established times. (No exceptions will be made.) **13.** Limited space is available for large exhibits. Submitting a photograph of the items is encouraged. **14.** Photographs of items too large or fragile: This is restricted only to large items such as welding projects or large woodworking items like furniture; fragile items such as delicate ceramic work. It is not intended as a substitute category for bringing or mailing a project. Photographs of oversized or fragile items will be displayed digitally.