SUMMARY PROSPECTUS

First Trust Large Cap Core AlphaDEX® Fund
Ticker Symbol: FEX
Exchange: The Nasdaq Stock Market LLC

Before you invest, you may want to review the Fund’s prospectus, which contains more information about the Fund and its risks. You can find the Fund’s statutory prospectus and other information about the Fund, including the statement of additional information and most recent reports to shareholders, online at www.ftportfolios.com/retail/ETF/ETFfundnews.aspx?Ticker=FEX. You can also get this information at no cost by calling (800) 621-1675 or by sending an e-mail request to info@ftportfolios.com. The Fund’s prospectus and statement of additional information, both dated November 30, 2018, are all incorporated by reference into this Summary Prospectus.
Investment Objective
The First Trust Large Cap Core AlphaDEX® Fund (the “Fund”) seeks investment results that correspond generally to the price and yield (before the Fund’s fees and expenses) of an equity index called the Nasdaq AlphaDEX® Large Cap Core Index (the “Index”).

Fees and Expenses of the Fund
The following table describes the fees and expenses you may pay if you buy and hold shares of the Fund. Investors purchasing and selling shares may be subject to costs (including customary brokerage commissions) charged by their broker, which are not reflected in the table below.

Shareholder Fees
(fees paid directly from your investment)

<table>
<thead>
<tr>
<th>Maximum Sales Charge (Load) Imposed on Purchases (as a percentage of offering price)</th>
<th>None</th>
</tr>
</thead>
</table>

Annual Fund Operating Expenses
(expenses that you pay each year as a percentage of the value of your investment)

| Management Fees | 0.50% |
| Distribution and Service (12b-1) Fees | 0.00% |
| Other Expenses | 0.11% |
| Total Annual Fund Operating Expenses | 0.61% |
| Fee Waiver and Expense Reimbursement(1) | 0.00% |
| Net Annual Fund Operating Expenses | 0.61% |

(1) First Trust Advisors L.P., the Fund’s investment advisor, has agreed to waive fees and/or reimburse Fund expenses to the extent that the operating expenses of the Fund (excluding interest expense, brokerage commissions and other trading expenses, taxes and extraordinary expenses) exceed 0.70% of its average daily net assets per year (the “Expense Cap”) at least through November 30, 2019. Expenses reimbursed and fees waived under such agreement are subject to recovery by the Fund’s investment advisor for up to three years from the date the fee was waived or expense was incurred, but no reimbursement payment will be made by the Fund if it results in the Fund exceeding an expense ratio equal to the Expense Cap in place at the time the expenses were reimbursed or fees waived by the Fund’s investment advisor. The agreement may be terminated by the Trust, on behalf of the Fund, at any time and by the Fund’s investment advisor only after November 30, 2019 upon 60 days’ written notice.

Example
The example below is intended to help you compare the cost of investing in the Fund with the cost of investing in other funds. This example does not take into account customary brokerage commissions that you pay when purchasing or selling shares of the Fund in the secondary market.

The example assumes that you invest $10,000 in the Fund for the time periods indicated. The example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain at current levels. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

<table>
<thead>
<tr>
<th>1 Year</th>
<th>3 Years</th>
<th>5 Years</th>
<th>10 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>$62</td>
<td>$195</td>
<td>$340</td>
<td>$762</td>
</tr>
</tbody>
</table>

Portfolio Turnover
The Fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs and may result in higher taxes when Fund shares are held in a taxable account. These costs, which are not reflected in annual fund operating expenses or in the example, affect the Fund’s performance. During the most recent fiscal year, the Fund’s portfolio turnover rate was 87% of the average value of its portfolio.

Principal Investment Strategies
The Fund will normally invest at least 90% of its net assets (including investment borrowings) in common stocks that comprise the Index. The Fund, using an “indexing” investment approach, attempts to replicate, before fees and expenses, the performance of the Index. The Fund’s investment advisor seeks a correlation of 0.95 or better (before fees and expenses) between the Fund’s performance and the performance of the Index; a figure of 1.00 would represent perfect correlation. The Index is owned and is developed, maintained and sponsored by Nasdaq, Inc. (the “Index Provider”).

The Index is designed to select stocks from the NASDAQ US 500 Large Cap Index (the “Base Index”) that may generate positive alpha, or risk-adjusted returns, relative to traditional indices through the use of the AlphaDEX® selection methodology. Alpha is an indication of how much an investment outperforms or underperforms on a risk-adjusted basis relative to its benchmark. The Index attempts to generate positive alpha by identifying stocks based on three factors: value, momentum and size. The Base Index is a comprehensive,
rules-based index designed to measure stock market performance of large cap US companies, as determined by the Index Provider. The Fund will be concentrated in an industry or a group of industries to the extent that the Index is so concentrated.

Security selection for the Index will be conducted in the following manner:

1. The selection universe for the Index begins with all stocks in the Base Index.
2. The Index Provider then removes any stocks which do not trade on an eligible exchange; duplicate (multiple share classes) stocks; and stocks which do not meet the Index Provider’s liquidity screens.
3. The remaining stocks in the universe are then ranked on both growth and value factors. Each stock is classified as either a value stock or a growth stock, as determined by the Index Provider. A stock classified as a value stock will receive its value rank as its “selection score” and a stock classified as a growth stock will receive its growth rank as its “selection score.”
4. The top 375 stocks based on the selection score determined in step 3 comprise the “selected stocks.” The selected stocks are then split into quintiles based on their selection score, with higher scoring quintiles receiving a greater weight in the Index.

The Index is reconstituted and rebalanced quarterly and the Fund will make corresponding changes to its portfolio shortly after the Index changes are made public. The Index’s quarterly rebalance and reconstitution schedule may cause the Fund to experience a higher rate of portfolio turnover. The securities of companies represented in the Index generally have market capitalizations that are consistent with the name of the Index. To determine the market capitalization range of such securities, the Fund uses the current range of the Index. However, the Fund will not sell a security because the security has exceeded or fallen below the current market capitalization range of the Index. As of September 30, 2018, the Index was composed of 374 securities with a market capitalization range of $6.0 billion to $1,087 billion.

Principal Risks
You could lose money by investing in the Fund. An investment in the Fund is not a deposit of a bank and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other governmental agency. There can be no assurance that the Fund’s investment objective will be achieved.

AUTHORIZED PARTICIPANT CONCENTRATION RISK. Only an authorized participant may engage in creation or redemption transactions directly with the Fund. A limited number of institutions act as authorized participants for the Fund. To the extent that these institutions exit the business or are unable to proceed with creation and/or redemption orders and no other authorized participant steps forward to create or redeem, the Fund’s shares may trade at a premium or discount to the Fund’s net asset value and possibly face delisting.

CONCENTRATION RISK. To the extent that the Fund invests a large percentage of its assets in a single asset class or the securities of issuers within the same country, state, region, industry or sector, an adverse economic, business or political development may affect the value of the Fund’s investments more than if the Fund were more broadly diversified. A concentration makes the Fund more susceptible to any single occurrence and may subject the Fund to greater market risk than a fund that is not so concentrated.

CYBER SECURITY RISK. The Fund is susceptible to operational risks through breaches in cyber security. A breach in cyber security refers to both intentional and unintentional events that may cause the Fund to lose proprietary information, suffer data corruption or lose operational capacity. Such events could cause the Fund to incur regulatory penalties, reputational damage, additional compliance costs associated with corrective measures and/or financial loss. Cyber security breaches may involve unauthorized access to the Fund’s digital information systems through “hacking” or malicious software coding but may also result from outside attacks such as denial-of-service attacks through efforts to make network services unavailable to intended users. In addition, cyber security breaches of the securities issuers or the Fund’s third-party service providers, such as its administrator, transfer agent, custodian, or sub-advisor, as applicable, or issuers in which the Fund invests, can also subject the Fund to many of the same risks associated with direct cyber security breaches. Although the Fund has established risk management systems designed to reduce the risks associated with cyber security, there is no guarantee that such efforts will succeed, especially because the Fund does not directly control the cyber security systems of issuers or third-party service providers.

EQUITY SECURITIES RISK. The value of the Fund’s shares will fluctuate with changes in the value of the equity securities in which it invests. Equity securities prices fluctuate for several reasons, including changes in investors’ perceptions of the financial condition of an issuer or the general condition of the relevant equity market, such as market volatility, or when political or economic events affecting an issuer occur. Common stock prices may be particularly sensitive to rising interest rates, as the cost of capital rises and borrowing costs increase. Equity securities may decline significantly in price over short or extended periods of time, and such declines may occur in the equity market as a whole, or they may occur in only a particular country, company, industry or sector of the market.

GROWTH STOCKS INVESTMENT RISK. Stocks exhibiting growth characteristics tend to be more volatile than certain other types of stocks and their prices usually fluctuate more dramatically than the overall stock market. A stock with growth characteristics can have sharp price declines due to decreases in current or expected earnings and may lack dividend payments that can help cushion its share price during declining markets.
INDEX MAKER RISK. The Fund may be included in one or more index-tracking exchange-traded funds or mutual funds. Being a component security of such a vehicle could greatly affect the trading activity involving the Fund’s shares, the size of the Fund and the market volatility of the Fund. Inclusion in an index could increase demand for the Fund and removal from an index could result in outsized selling activity in a relatively short period of time. As a result, the Fund’s net asset value could be negatively impacted and the Fund’s market price may be below the Fund’s net asset value during certain periods. In addition, index rebalances may potentially result in increased trading activity in the Fund’s shares.

INDEX PROVIDER RISK. There is no assurance that the Index Provider will compile the Index accurately, or that the Index will be determined, maintained, constructed, reconstituted, rebalanced, composed, calculated or disseminated accurately. To correct any such error, the Index Provider may carry out an unscheduled rebalance or other modification of the Index constituents or weightings, which may increase the Fund’s costs. The Index Provider does not provide any representation or warranty in relation to the quality, accuracy or completeness of data in the Index, and it does not guarantee that the Index will be calculated in accordance with its stated methodology. Losses or costs associated with any Index Provider errors generally will be borne by the Fund and its shareholders.

MARKET CAPITALIZATION RISK. There can be no assurance that the securities held by the Fund will stay within the Fund’s intended market capitalization range. As a result, the Fund may be exposed to additional risk or investors may not be given the opportunity to invest fully in a certain market capitalization range.

MARKET MAKER RISK. The Fund faces numerous market trading risks, including the potential lack of an active market for Fund shares due to a limited number of market makers. Decisions by market makers or authorized participants to reduce their role or step away from these activities in times of market stress could inhibit the effectiveness of the arbitrage process in maintaining the relationship between the underlying values of the Fund’s portfolio securities and the Fund’s market price. If the Fund has lower average daily trading volumes, it may rely on a small number of third-party market makers to provide a market for the purchase and sale of shares. Any trading halt or other problem relating to the trading activity of these market makers could result in a dramatic change in the spread between the Fund’s net asset value and the price at which the Fund’s shares are trading on the Exchange, which could result in a decrease in value of the Fund’s shares. This reduced effectiveness could result in Fund shares trading at a discount to net asset value and also in greater than normal intraday bid-ask spreads for Fund shares.

MARKET RISK. Market risk is the risk that a particular security, or shares of the Fund in general, may fall in value. Securities are subject to market fluctuations caused by such factors as economic, political, regulatory or market developments, changes in interest rates and perceived trends in securities prices. Shares of the Fund could decline in value or underperform other investments.

NON-CORRELATION RISK. The Fund’s return may not match the return of the Index for a number of reasons. The Fund incurs operating expenses not applicable to the Index, and may incur costs in buying and selling securities, especially when rebalancing the Fund’s portfolio holdings to reflect changes in the composition of the Index. In addition, the Fund’s portfolio holdings may not exactly replicate the securities included in the Index or the ratios between the securities included in the Index.

PASSIVE INVESTMENT RISK. The Fund is not actively managed. The Fund invests in securities included in or representative of the Index regardless of investment merit. The Fund generally will not attempt to take defensive positions in declining markets. In the event that the Index is no longer calculated, the Index license is terminated or the identity or character of the Index is materially changed, the Fund will seek to engage a replacement index.

PORTFOLIO TURNOVER RISK. High portfolio turnover may result in the Fund paying higher levels of transaction costs and may generate greater tax liabilities for shareholders. Portfolio turnover risk may cause the Fund’s performance to be less than expected.

PREMIUM/DISCOUNT RISK. The market price of the Fund’s shares will generally fluctuate in accordance with changes in the Fund’s net asset value as well as the relative supply of and demand for shares on the Exchange. The Fund’s investment advisor cannot predict whether shares will trade below, at or above their net asset value because the shares trade on the Exchange at market prices and not at net asset value. Price differences may be due, in large part, to the fact that supply and demand forces at work in the secondary trading market for shares will be closely related, but not identical, to the same forces influencing the prices of the holdings of the Fund trading individually or in the aggregate at any point in time. However, given that shares can only be purchased and redeemed in Creation Units, and only to and from broker-dealers and large institutional investors that have entered into participation agreements (unlike shares of closed-end funds, which frequently trade at appreciable discounts from, and sometimes at premiums to, their net asset value), the Fund’s investment advisor believes that large discounts or premiums to the net asset value of shares should not be sustained.

TRADING ISSUES RISK. Although the shares of the Fund are listed for trading on the Exchange, there can be no assurance that an active trading market for such shares will develop or be maintained. Trading in shares on the Exchange may be halted due to market conditions or for reasons that, in the view of the Exchange, make trading in shares inadvisable. In addition, trading in shares on the Exchange is subject to trading halts caused by extraordinary market volatility pursuant to the Exchange’s “circuit breaker” rules. Market makers are under no obligation to make a market in the Fund’s shares, and authorized participants are not obligated to submit purchase or redemption orders for Creation Units. In the event market makers cease making a market in the Fund’s shares or authorized participants stop submitting purchase or redemption orders for Creation Units, Fund shares may trade at a larger premium or discount to their net asset value. There can be no assurance that the requirements of the Exchange necessary to maintain the listing of the
Fund will continue to be met or will remain unchanged. The Fund may have difficulty maintaining its listing on the Exchange in the event the Fund’s assets are small or the Fund does not have enough shareholders.

**VALUE STOCKS INVESTMENT RISK.** The intrinsic value of a stock with value characteristics may not be fully recognized by the market for a long time or a stock judged to be undervalued may actually be appropriately priced at a low level.

**Annual Total Return**

The bar chart and table below illustrate the annual calendar year returns of the Fund based on net asset value as well as the average annual Fund and Index returns. The bar chart and table provide an indication of the risks of investing in the Fund by showing changes in the Fund’s performance from year-to-year and by showing how the Fund’s average annual total returns based on net asset value compared to those of the Index, a broad-based market index and a specialized securities market index. See “Total Return Information” for additional performance information regarding the Fund. The Fund’s performance information is accessible on the Fund’s website at www.ftportfolios.com.

On April 8, 2016, the Fund’s underlying index changed from the Defined Large Cap Core Index to the Nasdaq AlphaDEX® Large Cap Core Index. Therefore, the Fund’s performance and total returns shown below are not necessarily indicative of the performance that the Fund, based on its current Index, would have generated. Returns for an underlying index are only disclosed for those periods in which the index was in existence for the whole period. Because the Fund’s new underlying index had an inception date of January 11, 2016, it was not in existence for any of the periods disclosed. The new Index is substantially similar to the Defined Large Cap Core Index.

Returns before taxes do not reflect the effects of any income or capital gains taxes. All after-tax returns are calculated using the historical highest individual federal marginal income tax rates and do not reflect the impact of any state or local tax. Returns after taxes on distributions reflect the taxed return on the payment of dividends and capital gains. Returns after taxes on distributions and sale of shares assume you sold your shares at period end, and, therefore, are also adjusted for any capital gains or losses incurred. Returns for the market indices do not include expenses, which are deducted from Fund returns, or taxes.

Your own actual after-tax returns will depend on your specific tax situation and may differ from what is shown here. After-tax returns are not relevant to investors who hold Fund shares in tax-deferred accounts such as individual retirement accounts (IRAs) or employee-sponsored retirement plans.

**First Trust Large Cap Core AlphaDEX® Fund**

Calendar Year Total Returns as of 12/31 (1)

<table>
<thead>
<tr>
<th>Year</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>-38.35%</td>
</tr>
<tr>
<td>2009</td>
<td>36.11%</td>
</tr>
<tr>
<td>2010</td>
<td>20.66%</td>
</tr>
<tr>
<td>2011</td>
<td>14.39%</td>
</tr>
<tr>
<td>2012</td>
<td>35.77%</td>
</tr>
<tr>
<td>2013</td>
<td>12.34%</td>
</tr>
<tr>
<td>2014</td>
<td>14.11%</td>
</tr>
<tr>
<td>2015</td>
<td>21.52%</td>
</tr>
<tr>
<td>2016</td>
<td>-3.87%</td>
</tr>
<tr>
<td>2017</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

(1) The Fund’s calendar year-to-date total return based on net asset value for the period 12/31/17 to 09/30/18 was 7.49%.

During the periods shown in the chart above:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Quarter</td>
<td>21.20%</td>
</tr>
<tr>
<td>Worst Quarter</td>
<td>-23.68%</td>
</tr>
</tbody>
</table>
The Fund's past performance (before and after taxes) is not necessarily an indication of how the Fund will perform in the future.

### Average Annual Total Returns for the Periods Ended December 31, 2017

<table>
<thead>
<tr>
<th></th>
<th>1 Year</th>
<th>5 Years</th>
<th>10 Years</th>
<th>Since Inception</th>
<th>Since Inception Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return Before Taxes</td>
<td>21.52%</td>
<td>15.25%</td>
<td>8.92%</td>
<td>7.77%</td>
<td>5/8/2007</td>
</tr>
<tr>
<td>Return After Taxes on Distributions</td>
<td>20.92%</td>
<td>14.62%</td>
<td>8.40%</td>
<td>7.26%</td>
<td></td>
</tr>
<tr>
<td>Return After Taxes on Distributions and Sale of Fund Shares</td>
<td>12.16%</td>
<td>11.95%</td>
<td>7.00%</td>
<td>6.04%</td>
<td></td>
</tr>
<tr>
<td>Nasdaq AlphaDEX® Large Cap Core Index(1) (reflects no deduction for fees, expenses or taxes)</td>
<td>22.34%</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Nasdaq US 500 Large Cap Core Index(1) (reflects no deduction for fees, expenses or taxes)</td>
<td>21.99%</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>S&amp;P 500® Index (reflects no deduction for fees, expenses or taxes)</td>
<td>21.83%</td>
<td>15.79%</td>
<td>8.50%</td>
<td>7.82%</td>
<td></td>
</tr>
</tbody>
</table>

(1) Performance data is not available for all the periods shown in the table for the index because performance data does not exist for some of the entire periods.

### Management

**Investment Advisor**

First Trust Advisors L.P. (“First Trust” or the “Advisor”)

**Portfolio Managers**

The Fund’s portfolio is managed by a team (the “Investment Committee”) consisting of:

- Daniel J. Lindquist, Chairman of the Investment Committee and Managing Director of First Trust
- Jon C. Erickson, Senior Vice President of First Trust
- David G. McGarel, Chief Investment Officer, Chief Operating Officer and Managing Director of First Trust
- Roger F. Testin, Senior Vice President of First Trust
- Stan Ueland, Senior Vice President of First Trust
- Chris A. Peterson, Senior Vice President of First Trust

The Investment Committee members are primarily and jointly responsible for the day-to-day management of the Fund. Each Investment Committee member has served as a part of the portfolio management team of the Fund since 2007, except for Chris A. Peterson, who has served as a member of the portfolio management team since 2016.

### Purchase and Sale of Fund Shares

The Fund issues and redeems shares on a continuous basis, at net asset value, only in Creation Units consisting of 50,000 shares. The Fund’s Creation Units are generally issued and redeemed in-kind for securities in which the Fund invests and, in certain circumstances, for cash and only to and from broker-dealers and large institutional investors that have entered into participation agreements. Individual shares of the Fund may only be purchased and sold on Nasdaq and other eligible securities exchanges through a broker-dealer. Shares of the Fund trade on Nasdaq at market prices rather than net asset value, which may cause the shares to trade at a price greater than net asset value (premium) or less than net asset value (discount).

### Tax Information

The Fund’s distributions are taxable and will generally be taxed as ordinary income or capital gains. Distributions on shares held in a tax-deferred account, while not immediately taxable, will be subject to tax when the shares are no longer held in a tax-deferred account.

### Payments to Broker-Dealers and Other Financial Intermediaries

If you purchase shares of the Fund through a broker-dealer or other financial intermediary (such as a bank), First Trust and First Trust Portfolios L.P., the Fund’s distributor, may pay the intermediary for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the broker-dealer or other intermediary and your salesperson to recommend the Fund over another investment. Ask your salesperson or visit your financial intermediary’s website for more information.

You can find the Fund’s statutory prospectus and other information about the Fund, including the statement of additional information and most recent reports to shareholders, online at www.ftportfolios.com/retail/ETF/ETFfundnews.aspx?Ticker=FEX.